

★ UMass/AMHERST ★



312066 0281 6085 5



Digitized by the Internet Archive
in 2014

ANNUAL PLANNING REPORT FISCAL YEAR 1977

LM1

LOWELL

MASSACHUSETTS DIVISION
OF EMPLOYMENT SECURITY
JOHN D. CROSIER, DIRECTOR
AFFILIATED WITH EMPLOYMENT
AND TRAINING ADMINISTRATION
U.S. DEPARTMENT OF LABOR

ANNUAL PLANNING REPORT

FISCAL YEAR 1977

LABOR MARKET AREA
LOWELL, MASSACHUSETTS

PREPARED BY: JOHN MULHOLLAND
LABOR MARKET ECONOMIST
LABOR AREA RESEARCH DEPT.
MASSACHUSETTS DIVISION OF
EMPLOYMENT SECURITY
CHARLES F. HURLEY BUILDING
GOVERNMENT CENTER
BOSTON, MASS. 02114

TABLE OF CONTENTS

Body of Report

1. Highlights and Conclusions.....	1
2. Description of Area.....	2
a. Definition of Area.....	2
b. Economic Developments and Outlook.....	3
c. Population and Labor Force Characteristics.....	6
3. Employment Developments.....	10
4. Economic Developments and Outlook by Occupation.....	17
5. Unemployment Developments.....	20
6. Characteristics of Individuals in Need of Manpower Services.....	24

LIST OF TABLES AND GRAPHS

		Page
Map	1 Lowell Labor Market Area.....	2
Graph	1 Unemployment Rates (Lowell LMA, Mass. U. S.)....	3
	2 Nonagricultural Employment (Lowell LMA, Mass. United States).....	3
	3 Manufacturing Employment - Lowell LMA.....	4
	4 Durable and Nondurable Goods Employment Lowell.....	4
	5 Nonmanufacturing Employment Lowell LMA.....	4
Table	1 Hourly Earnings.....	5
	2 Total Labor Force - CY 1970 FY 1977.....	6
	C Characteristics of Unemployed Lowell LMA Projected to FY 1977.....	7
	A Characteristics of Population Lowell LMA Projected to FY 1977.....	8
	B. Characteristics of Labor Force Lowell LMA Projected to FY 1977.....	9
Graph	6 Ordnance Employment 1974 and 1975.....	10
	7 Primary Metals Employment 1974 and 1975.....	10
	8 Fabricated Metals Employment 1974 and 1975.....	10
	9 Machinery (exc. elec.) Employment 1974 and 1975.	11
	10 Electrical Machinery Employment 1974 and 1975...	11
	11 Textiles Employment 1974 and 1975.....	11
	12 Apparel Employment 1974 and 1975.....	12
	13 Rubber and Plastics Employment 1974 and 1975.....	12
	14 Construction Employment 1974 and 1975.....	12
	15 Transportation, Communications and Utilities Employment 1974 and 1975.....	13

LIST OF TABLES AND GRAPHS
(continued)

	Page
Graph 16 Wholesale and Retail Trade Employment 1974 and 1975.....	13
17 Finance, Insurance and Real Estate Employment 1974 and 1975.....	13
18 Service Employment 1974 and 1975.....	14
19 Government Employment 1974 and 1975.....	14
Table 3 Nonagricultural Wage and Salary Employment Lowell LMA Projected to 1985.....	15
4 Monthly Labor Force Statistics Lowell LMA 1970 - 1975.....	16
5 Number of Applicants Lowell DES Office vs Available Job Opportunities January 1976.....	17
6 Job Opportunities Lawrence Job Bank.....	18
7 Occupational Projections to 1985 Lowell LMA.....	19
Graph 20 Total Unemployment Lowell LMA 1975.....	20
Table 8 Characteristics Insured Unemployed Lowell CETA Area.....	20
9 Characteristics of Insured Unemployed by Occupation Lowell CETA Area.....	21
10 Characteristics of Insured Unemployed by Industry Lowell CETA Area.....	21
11 Duration of Unemployment Lowell CETA Area.....	21
Graph 21 Total Initial Claims.....	22
Graph 22 Number of Exhaustees.....	22
Graph 23 Continued Claims.....	23
Table 12 Characteristics of Applicants Lowell ESARS.....	25
Table Additional Planning Data Projection LMA Area to FY 1977.....	26

1. Highlights and Conclusions

The Lowell LMA experienced gains in unemployment and net losses in employment over the latter half of 1974 and first half of 1975. These adverse movements were analogous to those of the state and nation and reflected the national economic recession. The 1974-75 experience halted an improving trend in employment which began in 1972.

Unemployment peaked at 13.9 percent of the labor force in 1975, remained over 11 percent throughout the year and averaged 12.1 percent for the twelve-month period. Employment losses were concentrated mainly in the manufacturing sector and spread equally among durable and nondurable goods. Only the construction industry registered job losses in the nonmanufacturing sector.

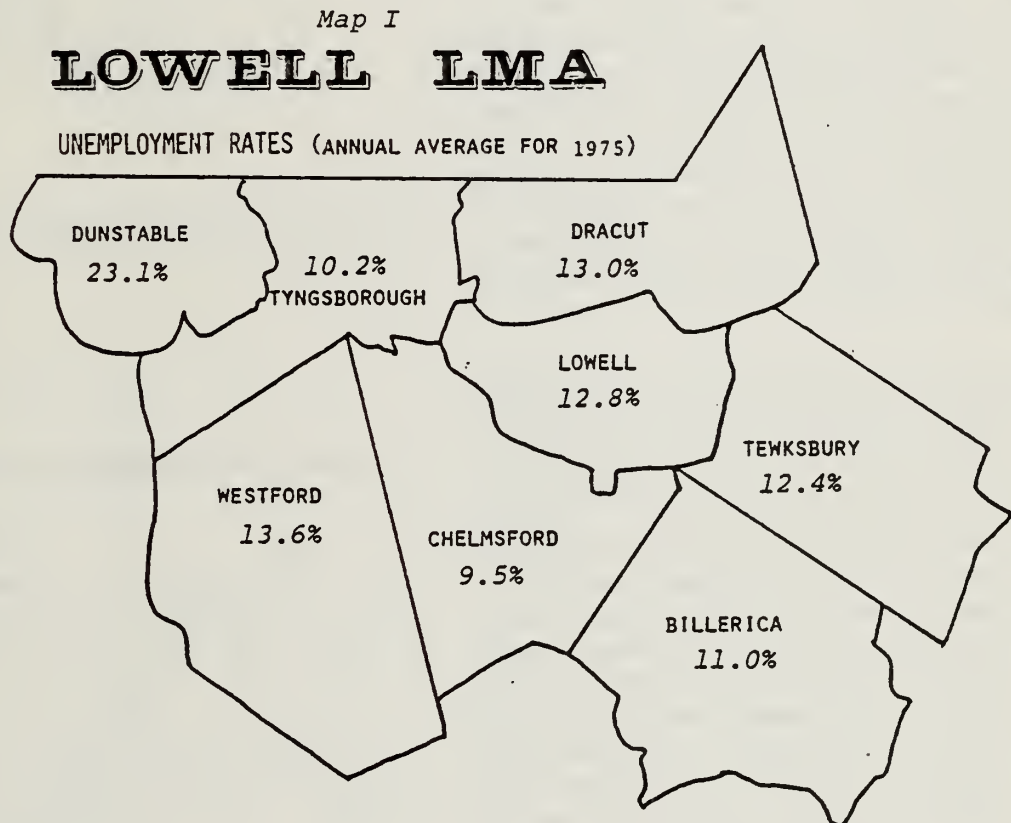
The economic downturn seems to have bottomed out in the Lowell LMA during the second quarter of 1975 with both employment and unemployment experiencing movement in favorable directions. As of April 1976 the unemployment rate had declined to 8.7 percent after remaining in the double-digit range for 15 consecutive months. Total employment has undergone only slight increases, a situation not unusual during the early stages of an economic recovery.

The population of the Lowell LMA is estimated to climb to 240,200 by the end of fiscal year 1977, constituting a 12.1 percent increase of its level of 1970. Nonagricultural employment is expected to increase by 12 percent by the year 1985 with the bulk of the rise expected to occur in durable goods manufacturing and the non-manufacturing sectors.

2. Description of the Lowell Labor Market Area

a. Definition of Area

The Lowell Labor Market Area is located within Middlesex County a section of northeastern Massachusetts. It lies in the Merrimack Valley at the confluence of the Merrimack and Concord Rivers. The Lowell Labor Market Area includes the city of Lowell and the towns of Billerica, Chelmsford, Dracut, Dunstable, Tewksbury, Tyngsborough and Westford. The CETA area coincides with that of the LMA.

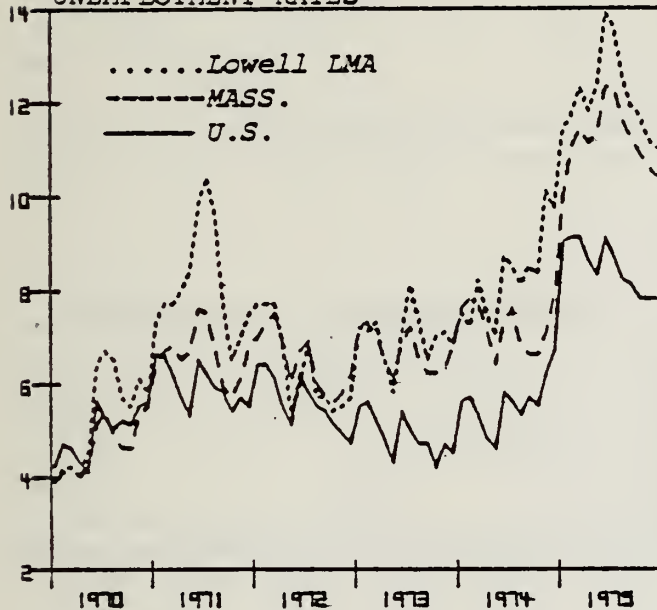


A labor area is a geographical area consisting of a central city or cities and the surrounding territory in which there is a concentration of economic activity and in which workers can generally change jobs without changing their residence. Basic emphasis is on commuting patterns and the relationship between the worker's place of residence and place of work. The labor area covered in this report is defined above.

b. Economic Trends and Outlook

G #1

UNEMPLOYMENT RATES

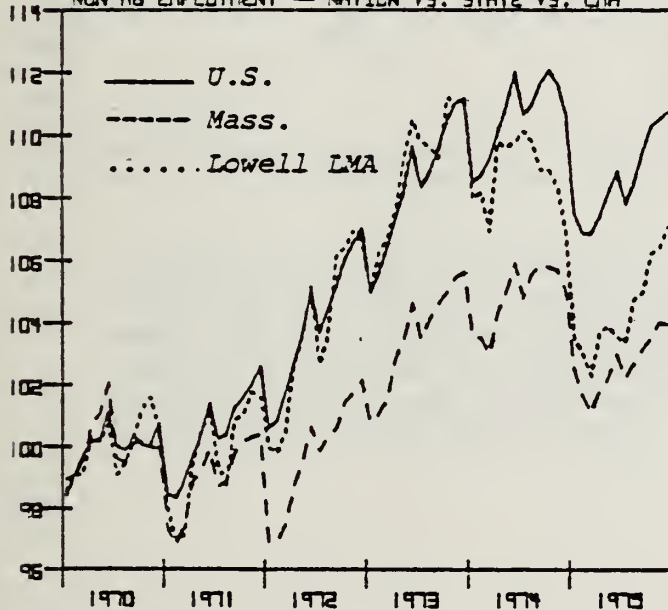


The Lowell LMA was characterized by a double-digit unemployment rate for each month of 1975. The rate averaged 12.1 percent of the labor force for the year which amounted to 12,400 unemployed individuals. On an annual average basis the number unemployed increased by 51 percent over the 1974 level. The unemployment rate increased by 3.8 percentage points over the same time period.

It should be realized that the Lowell LMA did not experience this dismal year in isolation, but rather reflected the general condition of Massachusetts and the nation. The state averaged 11.2 percent of the labor force unemployed for 1975 while the nation experienced an 8.5 percent rate of unemployment. The Lowell increase in unemployment of 51 percent during 1975 mirrored state and national increases of 60.5 percent and 54.3 percent respectively.

G #2

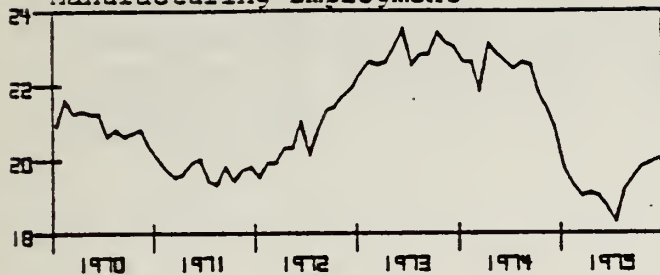
NON AG EMPLOYMENT — NATION VS. STATE VS. LMA



The cause of this serious unemployment problem can be attributed in great part, to the 1974-1975 recession which was the most severe in the post World War II period. The gravity of the recessionary effects can be perceived not only by examining unemployment but also by looking at how employment performed during 1975. After recovering from the effects of the 1970 recession, felt mainly during 1971, nonagricultural wage and salary employment grew by 4 percent in 1972 and 5 percent in 1973. After maintaining stability during 1974, the level of nonfarm jobs fell by 4 percent during 1975; thereby reverting to the 1972 level. The employment loss in the Lowell LMA during 1975 was of greater percentage consequence than the comparative figures for Mass. (-2.1 percent) and the United States (-1.8 percent).

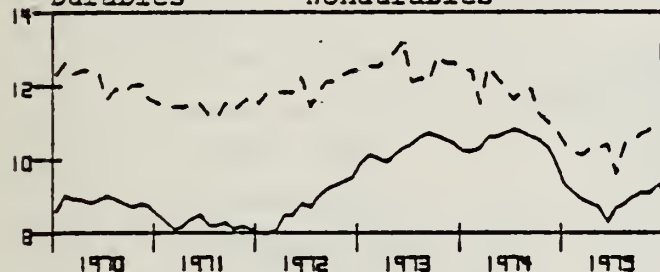
G #3

Manufacturing Employment



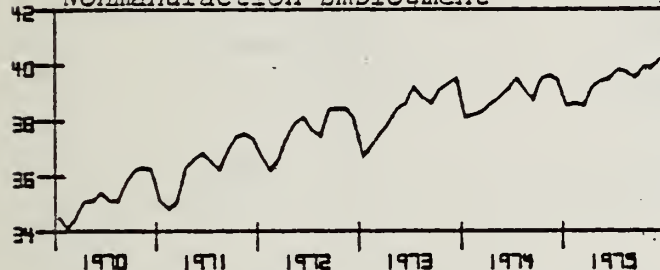
G #4

Durables----- Nondurables ———



G #5

Nonmanufacturing Employment



The job losses were concentrated in the manufacturing sector and divided equally between durable and nondurable goods producers; job losses of 1,500 and 1,400 respectively were registered. In the nonmanufacturing sector a gain of 500 jobs occurred during 1975. The only negative performer in this sector was the depressed construction industry which lost 700 jobs (26 percent of total 1974 construction jobs). The services industry, wholesale and retail trade and government all experienced increases in employment during 1975.

The future economic outlook for the Lowell LMA is highly dependent on the strength and duration of the national recovery. Grounds for cautious optimism have already manifested themselves in the form of sizeable improvements in unemployment throughout the first four months of 1976. The unemployment rate has fallen from 13.4 percent of the labor force in January to 8.9 percent in April. This equates to a 4,500 drop in unemployed individuals. In the employment sector slight increases have occurred in both durable and nondurable manufacturers however no stable upward trend has yet taken hold. Since throughout the 1970's the state has historically lagged behind national recoveries it is indeed necessary to have a continuous and strong performance by the national economy if

the state and thus the Lowell LMA are to show significant improvement. At this time it is too difficult to predict the timing of improvements in the Lowell LMA, but 1976 has already witnessed favorable movements in unemployment and a national recovery gaining momentum. Hopefully the effects of these two factors will contribute to a much needed betterment of conditions in the Lowell Labor Market Area.

Nonfactory payrolls are expected to expand by 6,000 jobs over the next decade. The largest gains in employment should come in Construction (+22 percent), Trade (+13 percent), Finance, Insurance, and Real Estate (+23 percent), Service (+15 percent) and Government (+15 percent).

Table #1
Annual Average - 1975
Weekly Earnings, Work-week, and Hourly Earnings
Major SMSA/IMA's

	Average Weekly Earnings	Average Hours Worked	Average Hourly Earnings
1. Boston SMSA	\$193.06	39.4	\$4.90
2. Worcester IMA	179.72	38.9	4.62
3. Springfield IMA	172.82	39.6	4.40
4. Lawrence-Haverhill SMSA	169.99 ..	38.9	4.37
5. <u>Lowell IMA</u>	159.01	38.5	4.13
6. New Bedford IMA	145.43	37.1	3.92
7. Brockton SMSA	145.16	37.9	3.83
8. Fall River IMA	124.61	35.2	3.54
State	174.78	39.1	4.47

Average weekly earnings of production workers in Lowell ranked fifth when compared to the eight major labor areas. Production personnel in Lowell averaged \$159.01 in weekly earnings during 1975 compared to \$174.78 for Massachusetts as a whole. The hourly earnings averaged \$4.13 in the Lowell IMA, \$0.34 less than in the State.

c. Population and Labor Force Characteristics

It had been estimated that by FY 1977 the population in the Lowell LMA will reach 240,167 an increase of 12.1 percent since 1970. The female population is expected to reach 123,420 or 51.4 percent of the total population. It is also estimated that the nonwhite population in the area will be 2,251 or just under 1.0 percent of the total population.

By FY 1977 the total labor force should approximate 101,000 up 16 percent from 1970.

Table #2
TOTAL LABOR FORCE
LOWELL LMA
CY 1970 FY 1977*

	Labor Force		Participation Rate	
	CY 1970	FY 1977	CY 1970	FY 1977
MALE TOTAL	55,587	60,035	47.2	51.4
FEMALE TOTAL	33,206	40,965	28.0	33.2
NONWHITE	550	706	30.9	31.4
TOTAL	86,793	101,000	37.4	42.1

* October 1, 1976 - September 30, 1977

The proportion of women of working age in the labor market, which was 23 percent in 1970 should rise by 23 percent, reaching a 33.2 percent share in FY 1977. The rise in women's labor force participation rates during the past decade has had a marked effect on the size and composition of the work force.

The worsening of the employment situation had an adverse effect on both white and nonwhite workers, with jobless rates for both groups rising substantially. The nonwhite labor force stood at 550 in 1970. An expected 28 percent increase by FY 1977 will result in a nonwhite labor force of just over 700.

Total unemployment for FY 1977 has been estimated to be about 10,000 or 9.9 percent of the civilian labor force. The estimates for females, nonwhites and Spanish have also been estimated and are shown in Table C. The latter was based upon the ratios found in the 1970 U. S. Census. These ratios were then applied to the forecasted labor force data.

Table C
Characteristics of the Unemployed
Lowell Labor Market Area
Projected Fiscal Year 1977 Average

Category	Number Unemployed	Unemployment Rate
White Male	5,578	9.4
White Female	4,301	10.6
Nonwhite Male	79	19.1
Nonwhite Female	42	14.4
Total Unemployed	10,000	9.9
Female	4,343	10.6
Black	71	17.2
Other	50	17.0
Spanish	478	17.2
Vietnam Era Veteran	605	xx

Table A
 Characteristics of the Population
 Lowell Labor Market Area
 Projected Fiscal Year 1977 Average

Age	Male		Female	
	White	Nonwhite	White	Nonwhite
Total	115,665	1,082	122,251	1,169
0-15	37,203	389	35,772	451
16-19	10,200	51	10,141	72
20-24	10,630	187	10,370	91
25-34	14,753	155	16,780	236
35-44	13,472	115	13,579	127
45-54	21,935	132	23,181	112
65+	7,472	53	12,428	80
Total Population	240,167			
Female	123,420			
Black	1,415			
Other	836			
Spanish	4,207			

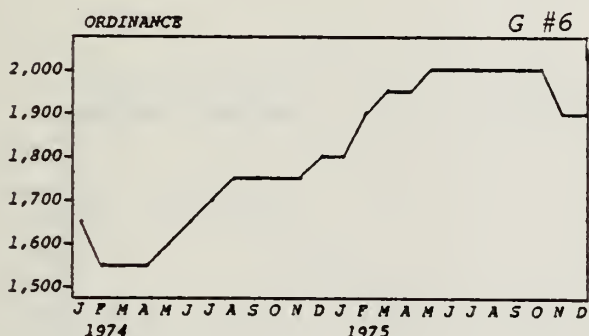
Table B
 Characteristics of the Labor Force
 Lowell Labor Market Area
 Projected Fiscal Year 1977 Average

Age	Male		Female	
	White	Nonwhite	White	Nonwhite
Total	59,621	414	40,673	292
16-19	6,414	30	7,009	20
20-24	10,312	91	6,343	40
25-34	12,766	101	6,797	131
35-44	11,645	91	6,838	20
45-64	16,949	91	12,848	51
65+	1,535	10	838	30
Total Labor Force	101,000			
Female	40,965			
Black	412			
Other	294			
Spanish	2,777			

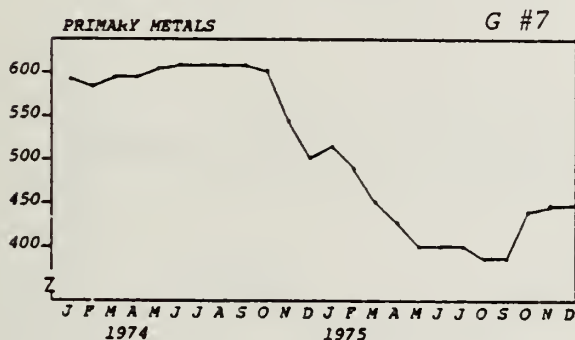
3. Employment Developments and Outlook by Industry

Nonagricultural wage and salary employment in the Lowell LMA stood at 61,900 at mid-July 1974. Over the next eight-month period ending mid-March 1975, nonfarm payrolls lost 4,400 jobs. Some recovery was seen during the remaining months of 1975. The yearly average of 58,700, however, was still 2,400 below the average for 1974.

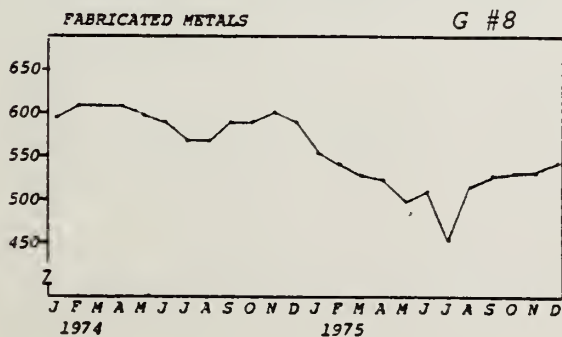
Manufacturing employment was hardest hit by the recession, falling by 4,100 between May 1974 and April 1975. Factory payrolls averaged 19,300 during calendar year 1975, the lowest level recorded in the 1970's. The losses were fairly equally divided between the durable and nondurable goods sectors.



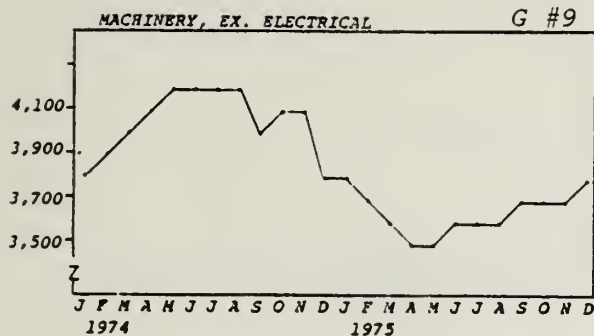
One of the few hard goods industries that reported an over-the-year increase was ordinance, up more than 250. The payroll expansions which began early in 1974 appears to have levelled off and should average about 2,000 during fiscal year 1977.



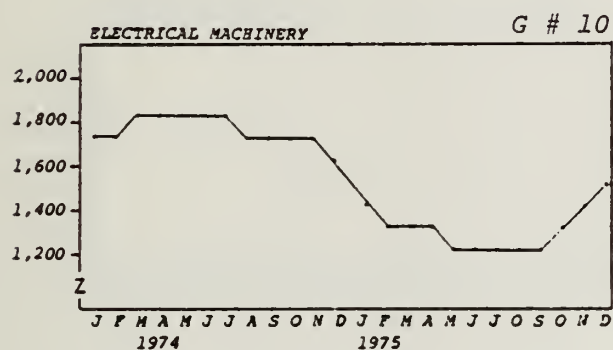
Job rolls in the primary metals industry declined from a high of 600 in June 1974 to a low of 390 in September 1975. By the end of the year some improvement was seen, though the average for 1975 was still 150 less than the average in 1974. No further cutbacks are anticipated in the next 18 months.



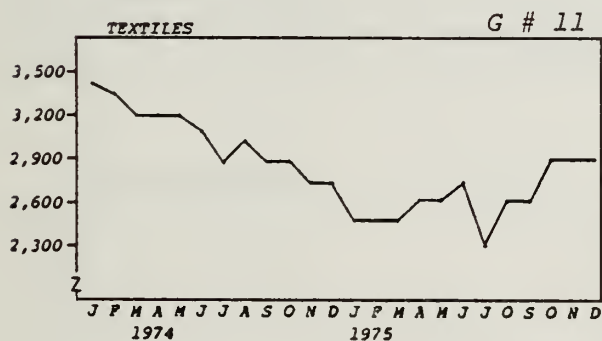
After a strong year in 1974 the fabricated metals industry began to decline in the second quarter of 1975 eventually losing 100 workers. By the end of the year half of the loss was recouped, closing out the year with 12 percent fewer workers than in 1974.



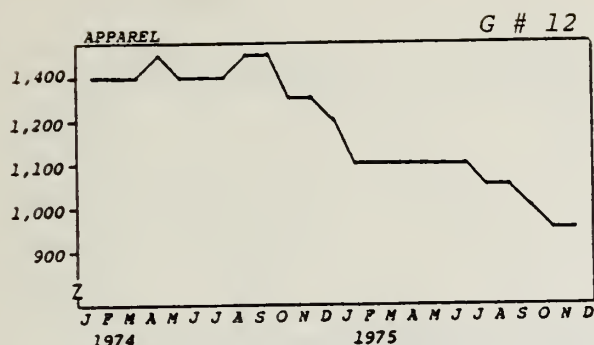
A range of some 650 jobs separated nonelectrical machinery from its highest level in 1974, and its low point in 1975. The effects of the recession began to take its toll late in 1974 and continued through the first half of 1975. Since then a positive employment growth has caused payroll totals in nonelectrical machinery to rise above its pre-recession levels. The outlook is optimistic with a steady growth predicted throughout fiscal year 1976 and into fiscal year 1977



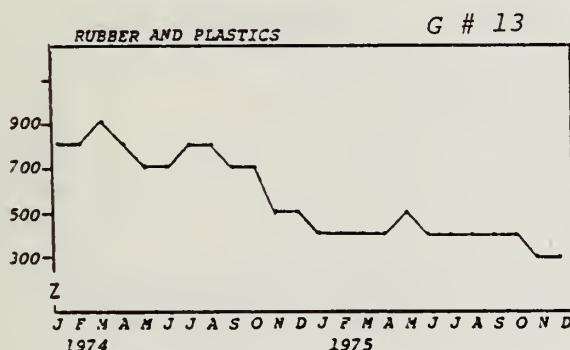
Employment in the electrical machinery industry peaked at 1,800 in June 1974 and then began to decline each month until August 1975. By then, 600 jobs had already been lost. A gradual improvement was witnessed during the last four months of 1975. The yearly average trailed the level posted in 1974 by 400 jobs. It is not expected that the losses attributed to the recession will be recouped until the middle of fiscal year 1977.



Almost all nondurable goods industries were affected by the economic slump in 1975. Hardest hit were textile firms which showed a drop of 900 between January 1974 and January 1975. By the last half of the year textile employment had gained back some 400 jobs ending the year with an average of 2,700, only 300 less than in 1974. The outlook for the textile industry through 1977 is expected to be favorable. Most of the previous employment losses should be recouped.

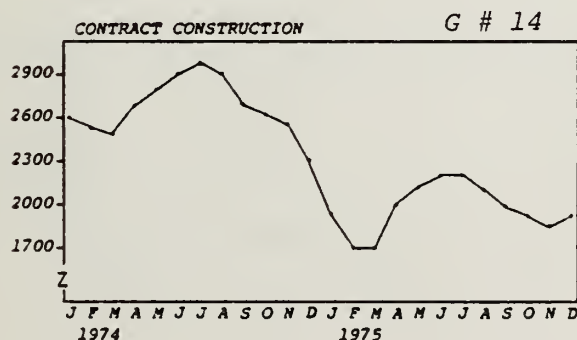


During 1975 apparel employment plummeted to its lowest level since pre-1970. This is one of the few industries that has not at least begun recovering from the low point reached during the recession. Off 400 from the average for 1974, it is not expected that these job losses will be recovered in the immediate future.

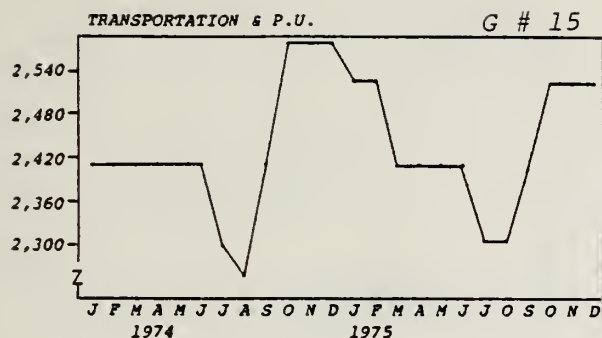


In the remaining nondurable goods industries a familiar pattern followed. Employment began to abate in the latter part of 1974 and continued to decline until mid-1975 when a reversal was recorded. During the 12-month period beginning in January 1974 some 600 jobs were lost, 500 of which occurred in the area's rubber and plastics firms. With the exception of the latter industry which is still down 500 jobs the other durable goods industries have bounced back to their approximate pre-recession levels.

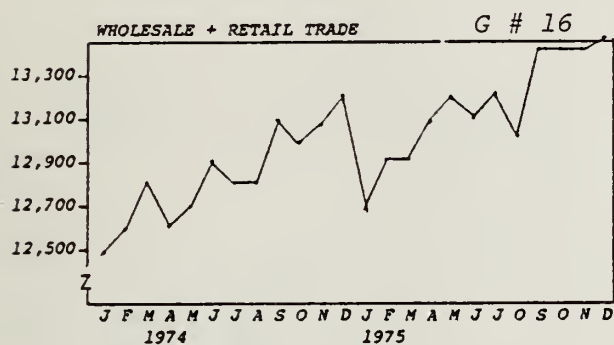
The nonmanufacturing sector was generally insulated from the effects of the recent recession. By December 1975 nonfactory payrolls exceeded 48,000, the highest recorded level ever in the Lowell IMA.



Contract construction was the only non-manufacturing industry to report an over-the-year loss. The building trades recorded an average of 700 fewer workers in 1975 than during 1974. Construction employment is not expected to reach the peak which occurred during the boom of 1971 and 1972, although some improvement is forecasted over the unusually depressed levels of 1975.

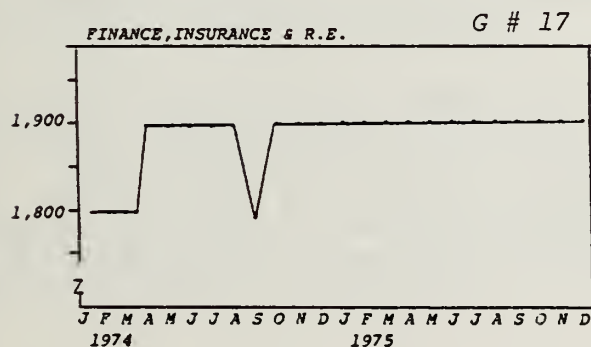


Transportation, communications and utilities employment averaged 2,400 in 1975, unchanged over the year. Small increases were seen in public transportation staffs while employment at local trucking firms fell slightly. Electric, gas and sanitary service remained constant over the two-year period ending 1975. A slow but steady growth rate is expected to prevail through fiscal year 1977.

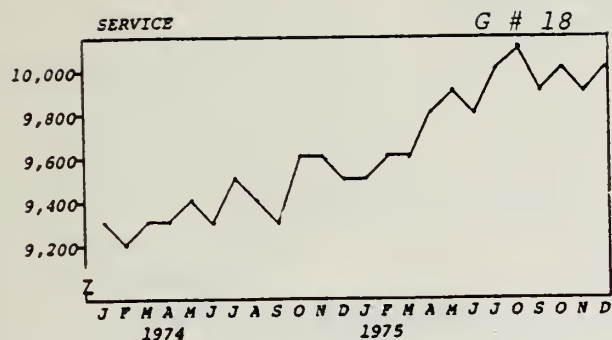


Firms in area wholesale and retail trade establishments reported payroll increases in every year since 1970, although the increase of 300 between 1974 and 1975 was the smallest over the year gain in three years. Employment in the wholesale division dwindled by five percent, largely due to the sales slump brought on by the recession. General merchandising stores were up fifteen percent while employment at local food stores rose by three percent.

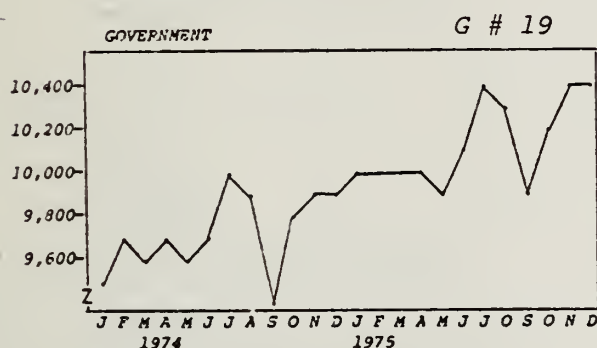
A five percent increase was also seen in the staff totals at area eating and drinking establishments. Trade is expected to continue its strong positive growth rate. As consumer confidence returns, spending will expand. Both wholesale and retail trade outlets will enlarge their payrolls well into fiscal year 1977.



Average employment totals in finance, real estate, and insurance has remained the same since 1973. Banking and insurance firms posted moderate staff increases that were offset by corresponding decreases in real estate employment. No significant change is anticipated through fiscal year 1977.



Since 1970 service employment has risen by nearly ten percent. Between 1974 and 1975 some 500 workers were added to service payrolls. The most significant increase took place in miscellaneous business services, medical and health services and nonprofit membership organizations. On the negative side, personal services fell by 30 percent between 1974 and 1975. It is expected that employment in the service sector will continue to grow reaching 10,500 by fiscal year 1977.



By far the largest gains in the non-manufacturing sector has been seen in government payrolls. Between 1970 and 1975 public employment has grown by 25 percent. All divisions reported increases although the most significant upswing occurred at the local level. The growth in government personnel is expected to be checked somewhat through fiscal year 1977. Many people were hired under the Comprehensive Employment and Training Act (CETA) during 1974 and 1975 bringing state and local government to over 9,300 for the first time. Because of the uncertainty of the CETA Program further increases at this time are not expected.

The nonfarm wage and salary industry projections to 1985 for the Lowell IMA are shown on Table 3 on the following page.

Nonagricultural wage and salary employment anticipates an increase of 11 percent over the 1974 to 1985 interval, despite the sharp decrease recorded during the past year. By 1985 there should be in the vicinity of 69,000 nonfarm jobs in the area. Manufacturing jobs should experience no more than a 5 percent increase. Durable goods, particularly fabricated metals, scientific instruments, and non-electrical machinery will show a modest growth while nondurable goods staffs are expected to fall by six percent.

TABLE # 3
Total Nonagricultural Wage and Salary Employment
Lowell Labor Market
1974 Projected to 1985

Industry	Year		Percent Change 1974-1985
	1974	1985	
Durable Goods	10,410	12,010	+15.3
Ordinance	1,670	1,900	+13.8
Furniture & Fixtures	540	540	0.0
Stone, Glass & Clay	660	740	+12.1
Primary Metals	580	620	+ 6.9
Fabricated Metals	590	760	+28.8
Machinery, ex. Electrical	4,060	4,950	+21.9
Electrical Machinery	1,680	1,800	+ 7.1
Scientific Instruments	570	630	+10.5
Other Durables	60	70	+16.7
Nondurable Goods	11,880	11,190	- 5.8
Food	1,280	1,210	- 5.5
Textile	3,060	2,620	-14.4
Apparel	1,400	1,270	- 9.3
Paper & Allied Products	1,010	1,010	0.0
Printing & Publishing	2,510	2,610	+ 4.0
Chemicals	620	690	+11.3
Rubber & Misc. Plastics	720	830	+15.3
Leather	1,250	910	-27.2
Other Nondurables	30	40	+33.3
Nonmanufacturing			
Agriculture, Forestry and Fisheries	550	490	-10.9
Mining	80	80	0.0
Contract Construction	2,630	3,220	+22.4
Trans., Comm., & Utilities	2,940	3,060	+ 4.1
Wholesale & Retail Trade	13,030	14,730	+13.1
Finance, Insurance and Real Estate	1,870	2,300	+23.0
Service	8,830	11,010	+24.5
Government	9,550	11,010	+15.3

PREPARED BY: RESEARCH & INFORMATION SERVICE
MASSACHUSETTS DIVISION
OF EMPLOYMENT SECURITY

Table # 4
LOWELL LABOR AREA

1970	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	ANN AVG
EMPLOY	81800	81600	80000	83000	83000	83300	80200	79700	81700	83000	83000	82600	81900
UNEMPLOY	3300	3600	3500	3500	4000	5700	5800	5500	4900	4800	5400	5100	4600
LABOR FORCE	85100	85200	83500	86500	87000	89000	86000	85200	86600	87800	88400	87700	86500
UNEMP RATE	3.9	4.2	4.2	4.0	4.6	6.4	6.7	6.5	5.7	5.5	6.1	5.8	5.3
1971	79500	77900	78300	80500	80600	81100	77800	77200	80600	81600	83100	83600	80100
EMPLOY	6300	6500	6500	7000	7400	8800	9000	8200	6600	5700	6300	6800	7100
UNEMPLOY	85800	84400	84800	87500	88000	89900	86800	85400	87200	87300	89400	90400	87200
LABOR FORCE	7.3	7.7	7.7	8.0	8.4	9.8	10.4	9.6	7.6	6.5	7.0	7.5	8.1
UNEMP RATE													
1972	79800	81300	82600	84100	84200	86500	84800	86400	87500	88100	87600	87700	85100
EMPLOY	6700	6800	6900	6100	4800	5400	6300	5200	5300	5000	5100	5300	5800
UNEMPLOY	86500	88100	89500	90200	89000	91900	91100	91600	92800	93100	92700	93000	90900
LABOR FORCE	7.7	7.7	7.7	6.8	5.4	5.9	6.9	5.7	5.7	5.4	5.5	5.7	6.4
UNEMP RATE													
1973	87400	87400	87700	87600	88800	89700	88200	87400	89100	91300	90900	91600	88900
EMPLOY	6800	6700	6900	6100	5500	6800	7800	7000	6200	6900	6900	6700	6700
UNEMPLOY	94200	94100	94600	93700	94300	96500	96000	94400	95300	98200	97800	98300	95600
LABOR FORCE	7.2	7.1	7.3	6.5	5.8	7.0	8.1	7.4	6.5	7.0	7.1	6.8	7.0
UNEMP RATE													
1974	90700	90800	89800	91000	91000	91000	91000	91300	90500	91000	90800	90000	90700
EMPLOY	7400	7000	8000	7400	6800	8700	8500	8100	8400	8200	10200	9700	8200
UNEMPLOY	98100	97800	97800	98400	97800	99700	99500	99400	98900	99200	101000	99700	98900
LABOR FORCE	7.5	7.2	8.2	7.5	7.0	8.7	8.5	8.1	8.5	8.3	10.1	9.7	8.3
UNEMP RATE													
1975	90200	89200	88000	88800	89100	89100	89400	90000	90100	91000	91000	91100	89800
EMPLOY	11600	11800	12300	11900	12500	14400	14100	12800	12200	12100	11500	11300	12400
UNEMPLOY	101800	101000	100300	100700	101600	103500	103500	102800	102300	103100	102500	102400	102200
LABOR FORCE	11.4	11.7	12.3	11.8	12.3	13.9	13.6	12.5	11.9	11.7	11.2	11.0	12.1
UNEMP RATE													

4. Employment Outlook by Occupation

According to available Job Bank information there were a little over 1,000 unfilled job openings in northeastern Massachusetts at the end of January, 1976. This represents a decrease of 26 percent from August and 200 less openings than during the corresponding month of one year ago.

The largest portion of unfilled openings was registered in the clerical and sales work sector (23 percent). Included in this group were positions for stenographers, typists, and account recorders. Professional, technical and managerial occupations accounted for the second largest number of openings (17 percent), followed by structural work (15 percent) and services (12 percent).

As of 1975 clerical workers comprised the largest employment groups by occupation, in the Lowell LMA (18 percent), followed by professional, technical and managerial (17 percent) and operatives (16 percent).

Between 1975 and 1985 nonfarm wage and salary employment by occupation is expected to increase by 18 percent. Employment of white-collar workers will continue its secular uptrend throughout the next decade. Since 1970 white collar employment has been relatively resistant to the cyclical downswing which resulted from the mid 70's recession.

Nonmanufacturing occupations should post the largest increases during the next decade. Continuing its historical trend employment of service workers will post a sizeable gain of 23 percent. In one area in particular, medical and health, the number of jobs is expected to double. Other increases are expected in clerical, sales and professional groups.

Blue-collar employment is not expected to fare as well. The number of operative workers should see no more than a five percent increase by 1985.

Table # 5
NUMBER OF APPLICANTS *
AND
AVAILABLE JOB OPPORTUNITIES #
JANUARY 1976

Occupation	Number of Applicants Lowell Office	Number of Openings Northeastern MA	Number of Openings Lowell Office	Ratio of Applicants to Orders Lowell Office
TOTAL	1,971	1,036	119	17:1
Prof., Tech., & Managerial	246	177	12	21:1
Clerical and Sales	496	238	14	35:1
Service	194	125	5	39:1
Farm	9	13	0	9:0
Processing	46	24	0	46:0
Machine Trades	180	84	27	7:1
Bench Work	241	132	44	5:1
Structural Work	256	156	6	43:1
Miscellaneous	303	108	1	303:1

* Applicants - Lowell ESARS

Job Openings - Lawrence Job Bank

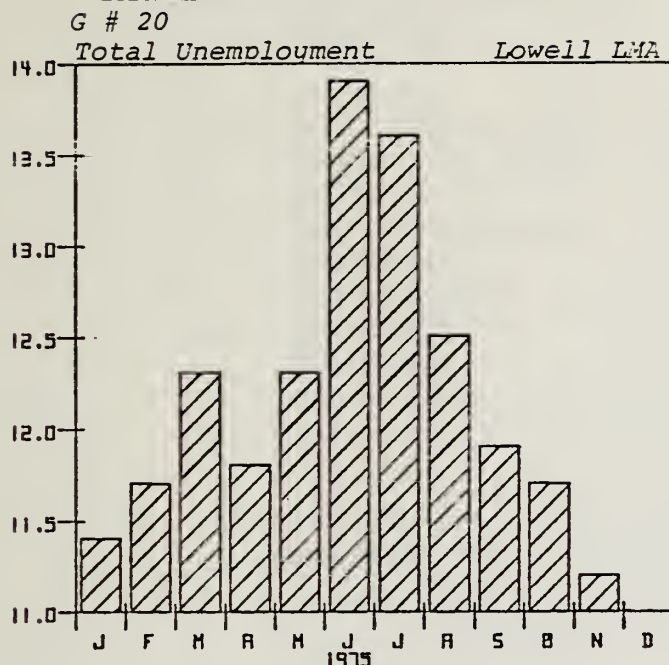
DISCRIPTION OF AVAILABLE
JOB OPPORTUNITIES
LAWRENCE JOB BANK
JANUARY 31, 1976
Table # 6

Job Group	Openings Listed	
	Northeastern Mass.	Lowell Office
TOTAL	1,036	119
Prof., Tech., & Managerial	177	12
Architecture & Engineering	28	3
Medicine and Health	27	0
Education	8	1
Administrative Specializations	41	6
Clerical and Sales	238	14
Stenography, Typing, Filing	78	5
Account-Recording	67	6
Sales, Services	15	0
Sales Commodities	11	1
Merchandising Occupations (exc. sales)	53	1
Service	125	5
Food and Beverage Preparation	36	0
Miscellaneous Personal Service	11	0
Protective Service	16	1
Domestic Service	30	2
Building and Related Service	23	2
Farming, Fishery and Forestry	13	0
Processing	24	4
Chemicals, Plastics, Synthetics and Rubber	10	1
Machine Trades	84	27
Metalworking	14	0
Mechanics and Machinery Repair	15	0
Textiles	23	20
Benchwork	132	44
Assembly and Repair of Metal Products	6	0
Assembly and Repair of Electrical Equipment	13	2
Repair of Textile and Leather Products	102	41
Structural Work	156	6
Metal Fabrication	18	6
Electrical Assembling	8	0
Construction Occupations	108	1
Miscellaneous	87	7
Motor Freight	17	0
Transportation	10	0
Packaging and Material Handling	58	5

Table # 7
OCCUPATIONAL PROJECTIONS
1975 - 1985
LOWELL LMA

Occupations	1975	1985	Percent Change
Total - All Occupations	58,700	69,100	+17.7
Professional & Technical	10,180	12,249	+20.3
Engineers, Technical	1,782	2,054	+15.3
Medical	1,381	2,021	+46.3
Teachers	1,776	1,880	+ 5.9
Technicians, except Health	1,455	2,106	+44.7
Managers & Administrators	4,955	5,807	+17.2
Sales Workers	3,334	3,963	+18.9
Clerical Workers	10,473	12,965	+23.8
Bookkeepers	693	734	+ 5.9
Secretaries, Stenog., & Typists	2,899	3,837	+32.4
Craftsmen	8,890	11,022	+24.0
Auto Mechanics	810	1,038	+28.2
Mechanic (except Auto)	1,484	1,843	+24.2
Machinists	435	438	+ 0.7
Metal Crafts	390	417	+ 6.9
Carpenters	603	773	+28.2
Construction (except Carpenters)	1,369	1,698	+24.0
Operatives	9,956	10,319	+ 3.6
Transportation Equip., Operatives	1,936	2,089	+ 7.9
Truck Drivers	957	1,158	+21.0
Laborers	1,970	2,248	+14.1
Construction	395	457	+15.7
Stock & Material Handlers	859	1,003	+16.8
Agriculture	258	153	-40.7
Service Workers	6,748	8,285	+22.8
Cleaning Workers	1,426	1,797	+26.0
Food Workers	1,953	2,336	+19.6
Health Workers	1,335	1,969	+47.5
Personal Workers	624	749	+20.0
Protective Workers	1,008	1,040	+ 3.2

5. Unemployment Developments



Starting in late 1974 total unemployment in the Lowell LMA began an ascent that did not show signs of abating until mid-1975. As the number of employed began to fall in October 1974, unemployment started to swell, peaking at 14,400 in June of 1975. At 13.9 percent, the unemployment rate in June reached a post-war record. The remaining months of 1975 saw a gradual improvement, with unemployment falling to 11,300 in December, still some 1,600 more than during the corresponding month in 1974. Total unemployment averaged 12,400 in 1975 twice the level attained in 1974.

The number of continued claims filed under the Regular, TREX and FSB programs reached a 1975 peak of nearly 12,000 during the May survey week. The low point of 1975 occurred in November when the number of claims dipped to 7,700.

It has been estimated that the number of unemployed will fall to 10,000 by fiscal year 1977. The unemployment rate is predicted to drop below 10.0 percent of the Labor Force.

Table # 8

CHARACTERISTICS OF INSURED UNEMPLOYED BY AGE AND SEX - ALL PROGRAMS LOWELL CETA AREA

May 1976

<u>Sex</u>	100.0%
Male	60.8%
Female	39.2%

<u>Age</u>	100.0%
Under 25	21.9%
25-34	25.7%
35-44	15.7%
45-54	15.4%
55-64	14.4%
65 and over	6.9%

Table # 9

CHARACTERISTICS OF INSURED UNEMPLOYED
BY OCCUPATION - ALL PROGRAMS
LOWELL CETA AREA
May 1976

<u>Occupation</u>	<u>% Of Total</u>
Total	100.0
Prof., Tech., Manag.	13.1
Clerical and Sales	22.7
Services	8.7
Farm and Fisheries	.6
Processing	1.8
Machine Trades	7.6
Bench Work	10.8
Structural	22.8
Miscellaneous	11.9

Table # 10

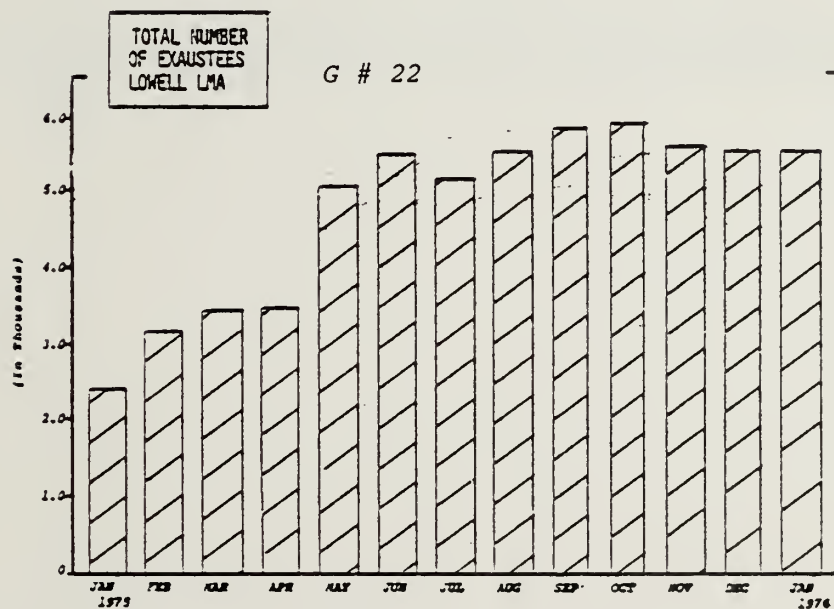
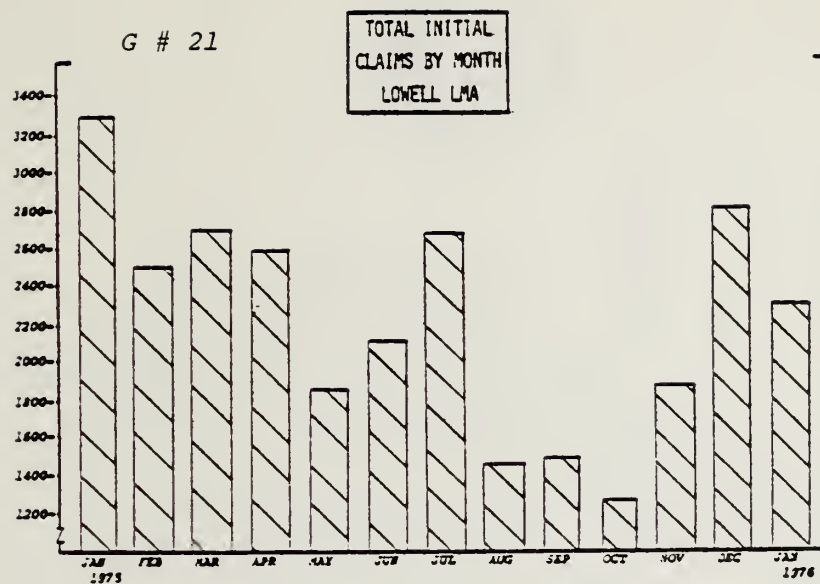
CHARACTERISTICS OF INSURED UNEMPLOYED
BY INDUSTRY - ALL PROGRAMS
LOWELL CETA AREA
May 1976

<u>Industry</u>	<u>% Of Total</u>
Total	100.0
Manufacturing	23.1
Contract Construction	17.7
Trans., Comm., Utilities	1.8
Trade	13.9
Finance, Insur., & R.E.	2.8
Service	11.5
Government	4.8
Other	.6
INA	23.8

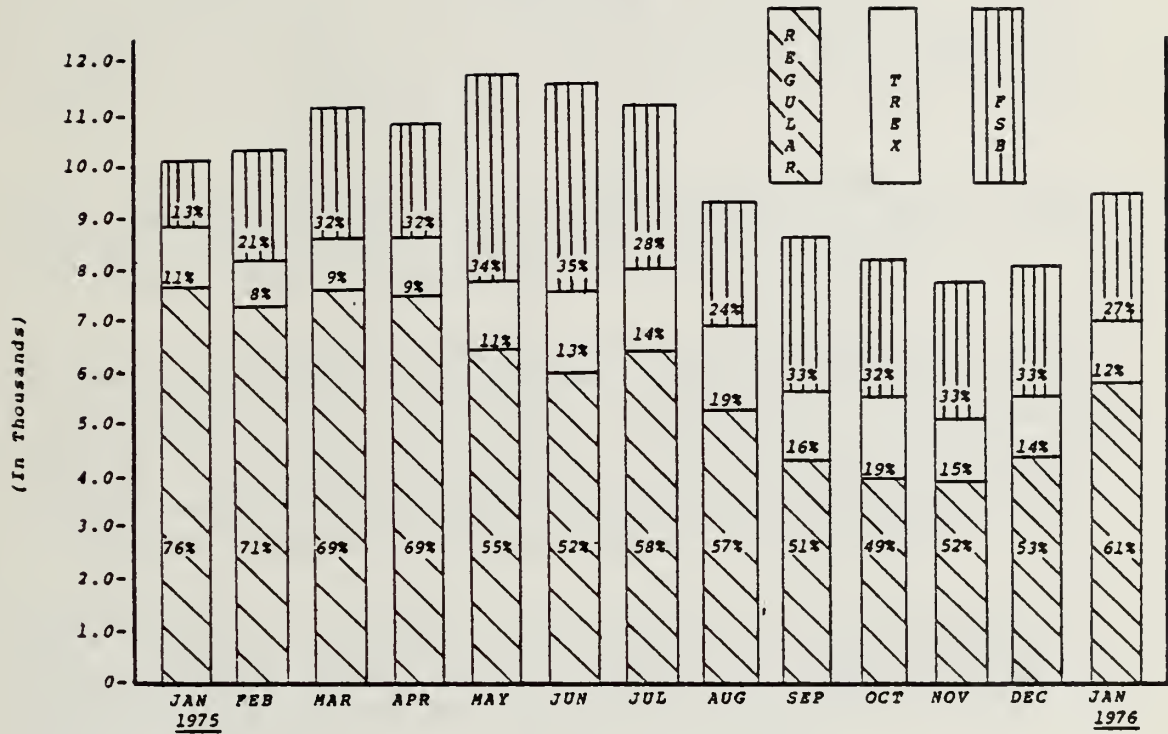
Table # 11

DURATION OF UNEMPLOYMENT
ALL PROGRAMS
LOWELL CETA AREA
May 1976

<u>Number of Weeks</u>	<u>% Of Total</u>
Total	100.0
0 - 4	11.3
5 - 9	13.0
10 - 14	15.8
15 - 19	12.9
20 - 24	9.5
25 - 29	6.3
30 Plus	31.2



G # 23
CONTINUED CLAIMS
BY SURVEY WEEK FOR
REGULAR, TREX, FSB
LOWELL LMA



6. Characteristics of Individuals in Need of Manpower Services

For the forecast period fiscal year 1977 it has been estimated that there will be close to 11,000 economically disadvantaged individuals over 18 years of age residing in the Lowell IMA. Under the definition set up by the Manpower Administration the term disadvantaged applied to a poor person or member of a poor family (annual income for a nonfarm family of four not in excess of \$5,500) who does not have suitable employment and fits one of the following categories: (1) a school drop-out; (2) a member of a minority group; (3) under 22 years of age; (4) 45 years of age or older; or (5) handicapped.

A detailed breakdown of the above groups is not available for the entire labor area although these characteristics are kept on those individuals who live in the labor area and have registered for employment at the local DES office.

Of the 8,700 registered applicants at the Lowell Employment office, 54 percent were males, 25 percent were under 21 years of age and all but 3 percent were white. Many of the younger workers find that their qualifications and experience do not match the available job openings. The positions for which the younger worker is qualified is often times of the low paying variety often times coupled with poor working conditions and little chance for advancement.

Some 40 percent of the applicants registered at the office did not have a high school education. During the past recession when a surplus of labor existed, employers became more selective in the hiring practices, often-times considering a high-school diploma the minimum prerequisite for industrial training.

Table # 12
 APPLICANTS REGISTERED
 LOWELL EMPLOYMENT OFFICE
 BY LABOR AREA

<u>Characteristics of Applicants</u>	<u>Registered Applicants</u>
Age - All Ages	8,771
Under 20 years	1,219
20 - 21	1,008
22 - 24	1,345
25 - 29	1,489
30 - 39	1,781
40 - 44	626
45 - 54	921
55 - 64	349
65 years or older	33
Sex	8,771
Men	4,753
Women	4,018
Highest Grade of School Completed	8,771
0 - 7	468
8 - 11	3,090
12	3,700
Over 12 years	1,513
Handicapped	503
Welfare	2,128
Ethnic Group	8,771
White	8,518
Black	199
Other	47
Spanish Surname	444
Vietnam -ERA Veteran	942
Source: ESARS	

Table D

Additional Planning Data Projections
 Lowell Labor Market Area
 Projected Fiscal Year 1977 Average

<u>Employed Part Time for Economic Reasons</u>		
Category	Total Employment	Part Time Employment for Economic Reasons
Total	91,000	3,861
White Male	54,043	1,891
White Female	36,372	1,928
Nonwhite Male	335	20
Nonwhite Female	250	22

Persons 14 and Over, Receiving Welfare Payments

Total	4,535
White Male	1,291
White Female	3,105
Nonwhite Male	67
Nonwhite Female	72

Economically Disadvantaged (18 and over)

Total	9,778
White	9,611
Black	92
Other	75
Spanish	311



ANNUAL PLANNING REPORT FISCAL YEAR 1978

OF EMPLOYMENT SECURITY JOHN D. CROSIER DIRECTOR

MASSACHUSETTS DIVISION

AFFILIATED WITH EMPLOYMENT AND TRAINING ADMINISTRATION U.S. DEPARTMENT OF LABOR

U OF MASS/AMHERST LIBRARY

LOWELL LMA



ANNUAL PLANNING REPORT

FISCAL YEAR 1978

LABOR MARKET AREA

LOWELL, MASSACHUSETTS

Prepared by: Constance Gardino
and
Martha Dailey
Labor Market Economists
Labor Area Research Department
Massachusetts Division of
Employment Security
Charles F. Hurley Building
Government Center
Boston, Massachusetts 02114

TABLE OF CONTENTS

	Page
I. Highlights and Conclusions.....	1
II. Description of Lowell Labor Market Area	
a. Definition of Area.....	2
b. Population and Labor Force Characteristics.....	3
III. Employment Developments and Outlook by Industry.....	5
IV. Employment Developments and Outlook by Occupation.....	12
V. Recent Unemployment Trends and Outlook.....	23
VI. Individuals In Need of Manpower Services.....	26
VII. Labor Supply/Demand Imbalances.....	28
VIII. Training Programs.....	35

TABLE OF CONTENTS
(continued)

Page

Tables:

1. Population of Lowell LMA by City and Town.....	3
2. Population and Labor Force Composition Projections F.Y. 1978.....	4
3. Manufacturing as a Percent of Annual Average Total Nonagricultural Employment.....	8
4. Employment Projections by Industry to 1985 Lowell LMA.....	10
5. Employment by Occupation - Lowell LMA.....	13
6. Comparison of Unfilled Job Openings by Major Occupational Category Lawrence Job Bank- Statewide January, July, December 1976.....	14
7. Projected Annual Average Job Openings 1974-1985 - Lowell LMA.....	14
8. Unfilled Job Openings Last Day of Each Month 1976 Lawrence Job Bank	15
9. Lowell LMA Labor Force and Unemployment Statistics - 1976.....	24
10. City of Lowell Labor Force and Unemployment Statistics - 1976.....	25
11. Additional Unemployment Projections F.Y.- 1978 - Lowell LMA.....	26
12. Additional Planning Data Projections F.Y. 1978 Lowell LMA.....	27
13. Active Applicants and Available Job Openings December 1976.....	29

TABLE OF CONTENTS
(continued)

Page

Tables:

14.	Percentage Composition of Active Job Applicants Lowell Office and Job Openings Lawrence Job Bank by Major Occupational Categories.....	30
15.	Job Opening Lawrence Job Bank December 1976, September 1976 and December 1975.....	31
16.	Selected Occupations of Applicants and Job Openings Listed with the Lawrence Job Bank December 1976.....	32
17.	Characteristics of Participants in Lowell CETA Program October 1, 1976-December 31, 1976.....	36
18.	Wages of CETA Participants Before Participation and Upon Entering Employment October 1, 1976- December 31, 1976.....	37
19.	Enrollees and Placements - Lowell CEP Classroom Training October 1, 1975-September 30, 1976.....	38
20.	Characteristics of New Applicants Lowell WIN September 1, 1976-December 31, 1976.....	39

Graphs:

1.	Nonfarm Employment Lowell LMA 1975-1976.....	5
2.	Manufacturing Employment Lowell LMA 1975-1976.....	5
3.	Durable Goods Employment Lowell LMA 1975-76.....	6
4.	Nondurable Goods Employment Lowell LMA 1975-76.....	6
5.	Food Processing Employment Lowell LMA 1975-76.....	7
6.	Apparel Employment Lowell LMA 1975-76.....	7

TABLE OF CONTENTS
(continued)

	Page
<u>Graphs:</u>	
7. Textile Employment Lowell LMA 1975-76.....	7
8. Nonmanufacturing Employment Lowell LMA 1975-76.....	8
9. Wholesale and Retail Trade Employment Lowell LMA - 1975-1976.....	8
10. Service Employment Lowell LMA - 1975-1976.....	8
11. Construction Employment Lowell LMA.....	9

I. Highlights and Conclusions

Population projections for the Lowell Labor Market Area indicate that the area's population in fiscal 1978 should total 243,931 which is an increase of 12.2 percent over the 1970 level. The area's labor force participation rate should be 65.1 percent in 1978 with women participating at a rate of 51.9 percent.

Nonagricultural wage and salary employment at 61,600 in December 1976, has been steadily increasing over the past twenty-four months. Advances have occurred in both the manufacturing and nonmanufacturing sectors, as increases of 800 and 1,400 respectively have been reported over the year.

The occupational outlook for the Lowell LMA shows that by 1985 there will be more white collar employment opportunities with professional, technical and kindred, managerial, sales and clerical occupations accounting for a larger share of all occupations. In 1976 these occupations comprised 47 percent of all unfilled openings listed on the DES Lawrence Job Bank. This is in line with the state as a whole where these groups account for 51 percent of total openings.

During 1976 the unemployment rate for the Lowell LMA dropped from a 12.4 annual average in 1975 to a 1976 average of 10.5 percent. Although some economic improvement did occur over the year, the LMA's 1976 rate was still 1.0 percent above that of the state and 2.8 percent over the national rate.

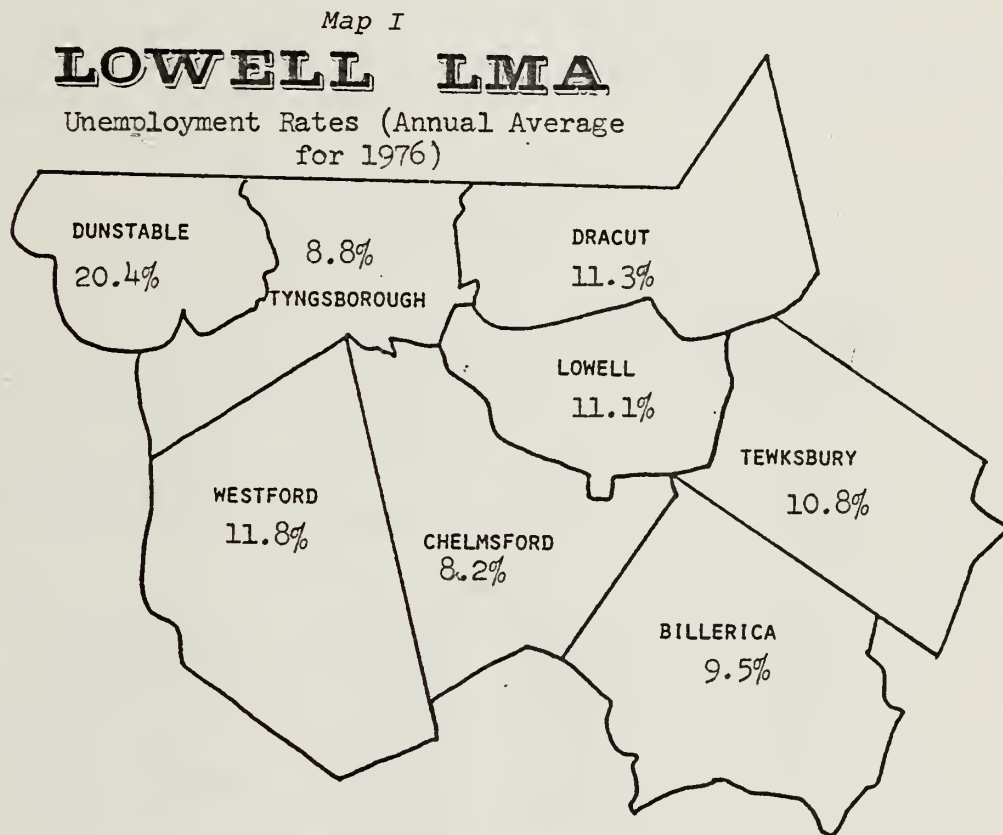
During fiscal year 1978 the unemployment rate for the LMA is expected to continue its slow decline to the 8.8 percent level. White females are expected to have the lowest rate, and nonwhite males the highest unemployment rate during F.Y. 1978.

Many persons in the Lowell Labor Market Area will be in need of manpower services including the long-term unemployed. Some of these people, middle aged and out of work due to a decline or a change in technology of the industry in which they were employed, will join the ranks of the economically disadvantaged for the first time, along with others who due to inadequate skill and/or educational levels will be unable to obtain suitable employment in a highly competitive labor market.

II. Description of the Lowell Labor Market Area

a. Definition of Area

The Lowell Labor Market Area is located within Middlesex County a section of northeastern Massachusetts. It lies in the Merrimack Valley at the confluence of the Merrimack and Concord Rivers. The Lowell Labor Market Area includes the city of Lowell and the towns of Billerica, Chelmsford, Dracut, Dunstable, Tewksbury, Tyngsborough and Westford. The CETA area coincides with that of the LMA.



A labor area is a geographical area consisting of a central city or cities and the surrounding territory in which there is a concentration of economic activity and in which workers can generally change jobs without changing their residence. Basic emphasis is on commuting patterns and the relationship between the worker's place of residence and place of work. The labor area covered in this report is defined above.

b. Population and Labor Force Characteristics and Trends

Population Projections for the Lowell LMA (consortium) indicate that in fiscal year 1978 the area should have a population of 243,931 an increase of 12.2 percent over 1970. Of the cities and towns that comprise the area, the town of Dunstable has the fastest growing population, which by 1978 should have increased by 36.9 percent over 1970. The city of Lowell is the only one with a declining population.

The area's labor force participation rate should be 65.1 percent in 1978. The female labor force participation rate should be 51.9 percent, and the overall unemployment rate, 8.8 percent.

Table 1

Population of the Lowell LMA
By City and Town

	1970	1978	Percent Change 1970 - 1978
Lowell LMA (Total)	214,152	243,931	+12.2
Middlesex County			
City of Lowell	94,239	91,871	- 2.6
Towns:			
Billerica	31,648	42,660	+25.8
Chelmsford	31,432	35,100	+10.4
Dracut	18,214	22,630	+19.5
Dunstable	1,292	2,048	+36.9
Tewksbury	22,755	28,790	+21.0
Tyngsborough	4,204	5,319	+21.0
Westford	10,368	15,513	+33.2

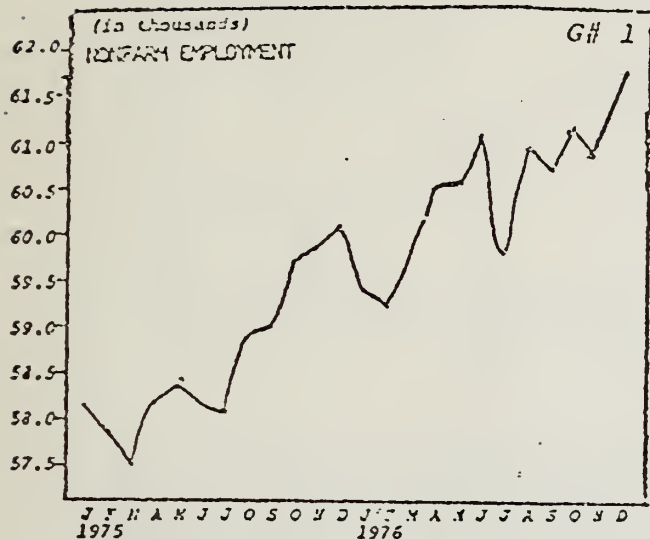
POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS
FISCAL YEAR 1978

Table 2
Lowell Consortium

	Population	Labor Force	Employ	Unemploy	Unemploy Rate	Labor Force Participation Rate
TOTAL	243,931	109,865	100,197	9,668	8.8	65.1
White Male	117,531	63,510	57,782	5,728	9.0	79.9
0-15	38,001	--				
16-17	5,171	3,498				67.6
18-19	5,171	3,557				68.8
20-24	10,782	9,019				83.7
25-34	14,984	14,169				94.6
35-44	13,664	12,922				94.6
45-64	22,180	18,672				84.2
65 +	7,578	1,673				22.1
White Female	124,136	45,579	41,692	3,887	8.5	51.9
0-15	36,319	--				
16-17	5,142	3,797				73.8
18-19	5,142	4,011				78.0
20-24	10,518	7,295				69.4
25-34	17,019	7,978				46.9
35-44	13,771	7,845				57.0
45-64	23,606	13,324				56.4
65 +	12,619	1,329				10.5
Nonwhite Male	1,070	438	394	44	10.1	64.9
0-15	395	--				
16-17	26	8				30.8
18-19	27	17				63.0
20-24	189	96				50.8
25-34	124	93				75.0
35-44	116	107				92.2
45-64	137	110				80.3
65 +	56	7				12.5
Nonwhite Female	1,188	338	INA*	INA*	INA*	46.0
0-15	454	--				
16-17	37	11				29.7
18-19	37	9				24.3
20-24	95	52				54.7
25-34	238	143				60.1
35-44	128	30				23.4
45-64	114	58				50.9
65 +	85	35				41.2

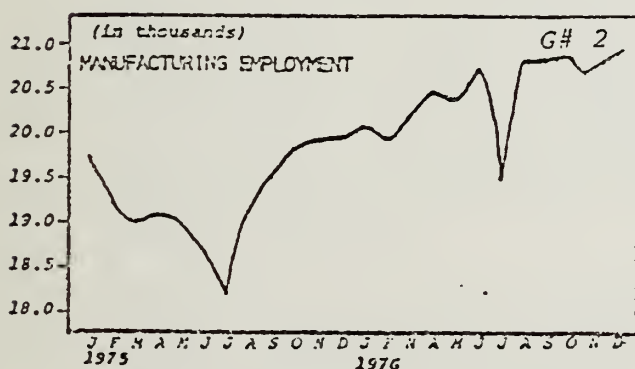
* Figures too small to make adequate projections

III. Employment Developments and Outlook by Industry



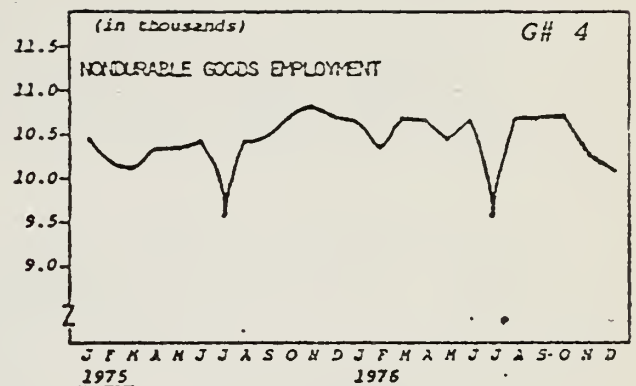
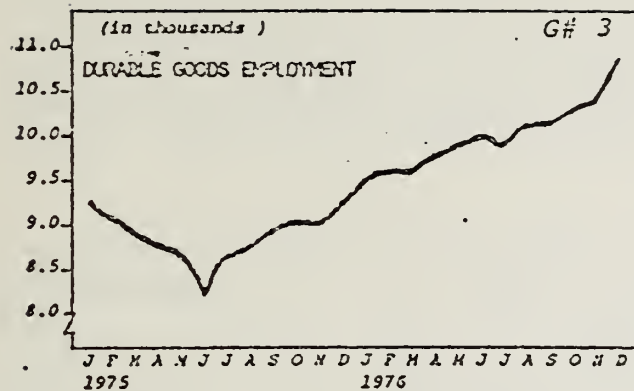
Nonagricultural wage and salary employment in the Lowell Labor Market Area stood at 61,600 in December 1976. As Graph 1 shows, nonfarm employment in the area has been increasing steadily over the past twenty-four months. Area payrolls are now only 300 below the 1974 employment level of 61,900. This is a good sign for the area but to take this as an indication of a full recovery would be far too simplistic a view. In order to absorb the new entrants and re-entrants to the labor force, employment must expand each year just to stay at the same relative level. Therefore, although non-agricultural employment is at approximately

the same numerical point as it was in 1974, there are more potential workers in the 1976 population*. This makes the present situation quite different from that of 1974 both in terms of current employment and unemployment conditions and implications for the future. As the recovery process continues and jobs become more and more plentiful, workers who were previously discouraged from continuing their job seeking efforts by the lack of available jobs will begin to re-enter the labor force. This large pool of discouraged workers quite possibly could have one of the largest impacts on area employment and manpower planning and development during the next few years.



Employment in the manufacturing sector has been, and most likely will continue to, inch its way upward. Over the year, this sector has gained 800 jobs to reach a December 1976 employment total of 20,900. The durable and nondurable goods sub-sectors sustained employment losses of nearly equal magnitudes during the 1975 economic downturn but since the recession bottomed out in mid-1975, these two sub-sectors have followed different courses of recovery.

* See Tables 1 and 2

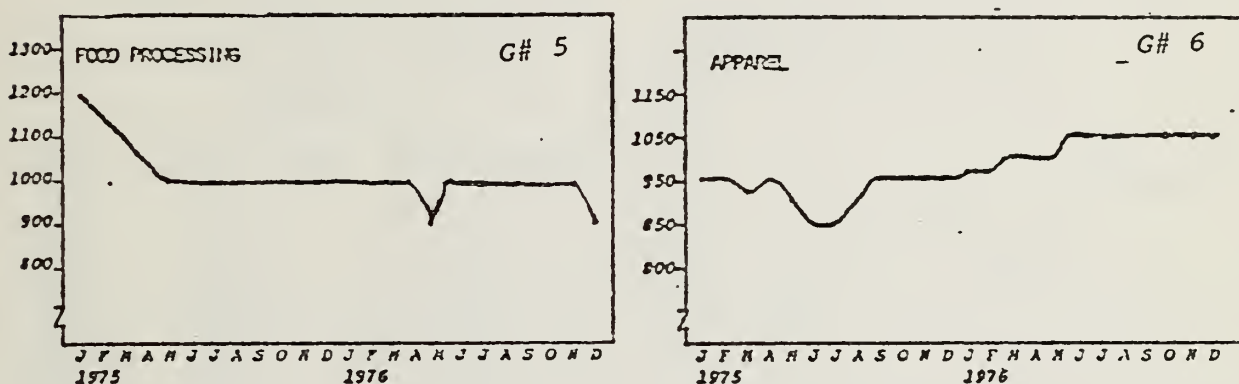


The expansion of payrolls that began in the durable goods subsector in July 1975 has been gradual but consistent and the increases in this sector's employment levels was one strong indication that the area's economy had begun the recovery process. The continuation of the upward trend over the past 18 months is a positive sign for the area. In December 1976 employment in this subsector stood at 10,700, only 100 jobs below its 1974 peak. As the economy of the area, state and nation strengthen, their industries comprising the durable goods subsector should continue to expand, particularly the nonelectrical machinery and fabricated metals industries.

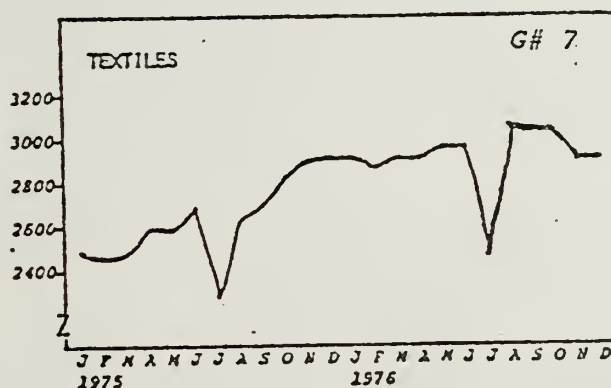
Unlike the durable goods subsector, which suffered depressed employment levels during the 1975 recession but has since recouped most of its losses, the nondurable goods subsector, has not expanded its jobrolls very much since the recession. Employment in this subsector went from a 12,500 job peak in April 1974 to a 10,100 job trough in March 1975. By mid-December 1976 employment in this subsector was only marginally (+100) higher than its recessionary nadir, of 10,200 area nonmanufacturing jobs. The apparel and food industries have performed in ways that paralleled the pattern of the subsector as a whole. Both of these industries experienced diminished employment levels during the recession and their employment levels have remained depressed while other area industries have begun a period of economic recovery.

Employment in the food and food processing industry stood at about 1,500 in 1974. During 1975 it was down by about 100 but employment has continued to fall reaching a 900-job level in December 1976. This long-term decline in the food industry's employment level is primarily due to structural changes within the industry such as increased automation.

The apparel industry is also performing counter to the general upward trend in employment exhibited by most other industries. Payrolls in this industry exceeded 1,500 in the first quarter of 1974 and experienced diminishing payrolls during the recession, bringing employment levels down to 900 by September 1975. Since then, employment in this industry has remained depressed with a mid-December 1976 total of 1,000.



The textile industry, however, has begun to regain some of the losses incurred in the 1975 downturn. Employment in this industry averaged 3,000 during 1974. During 1976 it began to pick up again to an average of 2,900 in 1976.

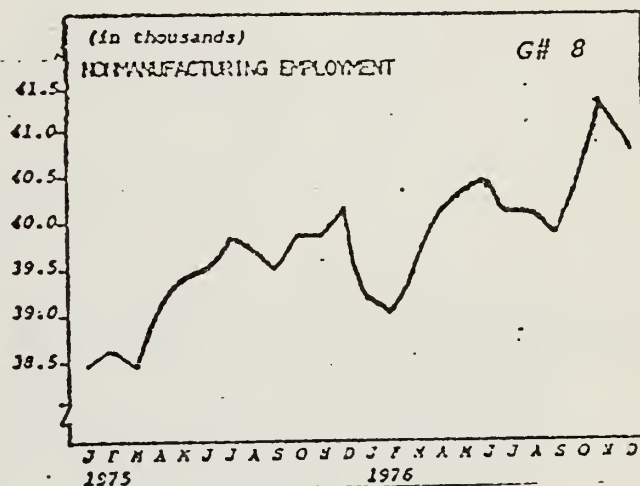


The nonmanufacturing sector is comprised of many industries with seasonal employment patterns, particularly the construction, trade and service industries. The general course this sector has taken, apart from seasonally

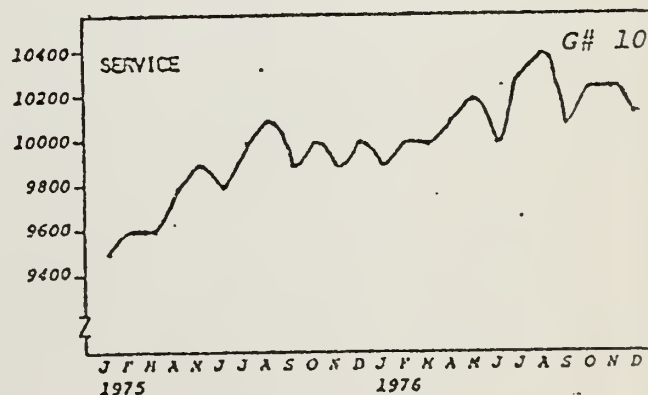
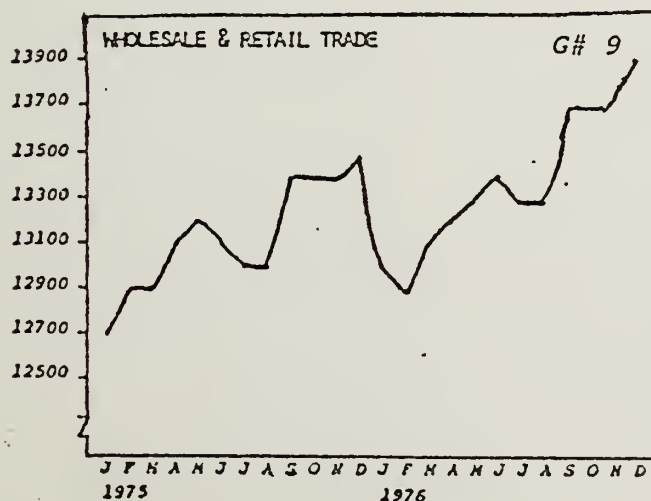
caused dips in employment, has been a strongly upward one. This sector also has been increasing its proportion of all area nonfarm employment with steady increases each year since 1973. The nonmanufacturing sector has also been increasing as a share of total nonagricultural employment in the state as a whole, however at not quite as fast a rate as the LMA. In 1976 66.3 percent of all area nonfarm employment in the LMA was in the nonmanufacturing sector vs. 74.5 percent for the state as a whole.

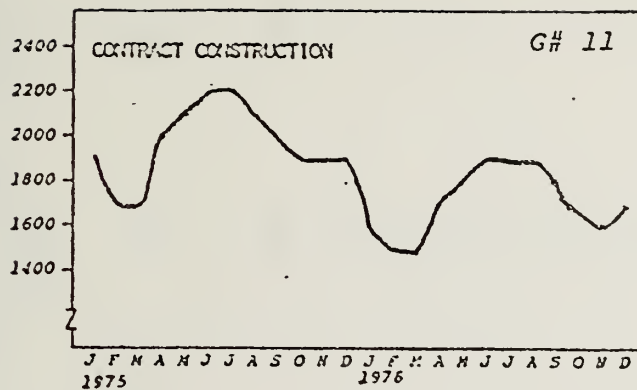
Nonmanufacturing as a Percent
of Annual Average
Total Nonagricultural
Employment

Year	Lowell LMA	Massachusetts
1970	62.8	71.3
1971	64.9	73.1
1972	64.5	73.3
1973	62.7	73.2
1974	63.8	73.2
1975	65.1	74.6
1976	66.3	74.1



Some of the upward momentum in the nonmanufacturing sector's employment totals was provided by expansion of payrolls in the wholesale and retail trade and the service industries which are among the area's largest employers. The two account for 39 percent of all nonagricultural employment in the area. The wholesale and retail trade industry's jobrolls have been increasing steadily over the past twelve months going from 13,400 in mid-December 1975 to 13,900 one year later, an increase of 3.6 percent over the year. The area's service industry has also been growing relatively rapidly. Over the past year employment has advanced by 4.9 percent from 9,700 in December 1975 to 10,400 in December 1976.





The construction industry is characteristically sensitive to the business cycle, general economic conditions, and seasonal factors. During 1975-76 a depressed economy took its toll on the industry as did particularly severe weather conditions during the winter months. The industry has been on a downward trend in recent years with employment declining from approximately 2,200 in June-July 1975 to the 1,900 worker level in the summer of 1976, an absolute decline of 300 workers or 13.6 percent. As the economic recovery continues, this industry should benefit positively during the coming fiscal year.

Table 4

Employment Projections by Industry to 1985
Lowell Labor Market Area

Industry Title	Est. '78 Empl.		Proj. '85 Empl.		Employment Change 1974 - 1985	
	Number	Percent	Number	Percent	Entire Period	Annual Avg.
TOTAL	70,809	100.0	77,276	100.0	10,162	15.1 924
Agriculture, Forestry, and Fisheries	862	1.2	785	1.0	- 121	-13.4 - 11
Mining	80	0.1	77	0.1	- 5	- 6.1 - 0
Construction	4,423	6.2	4,823	6.2	629	15.0 57
Manufacturing	22,780	32.2	23,159	30.0	595	2.6 54
Durable Goods	11,341	16.0	12,273	16.0	1,464	13.5 133
Ordinance	1,898	2.7	2,074	2.7	276	15.4 25
Machinery, exc. Elec.	4,377	6.2	4,943	6.4	890	22.0 81
Electrical Machinery	1,710	2.4	1,757	2.3	74	4.4 7
All Other Durable Goods	3,356	4.7	3,499	4.6	224	6.8 20
Nondurable Goods	11,439	16.2	10,886	14.1	- 869	- 7.4 - 79
Textile Mill Products	2,833	4.0	2,521	3.3	- 491	-16.3 - 45
Apparel	1,334	1.9	1,234	1.6	- 157	-11.3 - 14
Paper & Allied Products	986	1.4	970	1.3	- 25	- 2.5 - 2

Table 4
Employment Projections by Industry to 1985
Lowell Labor Market Area

Industry Title	Est. '78 Empl		Proj. '85 Empl.		Employment Change 1974 - 1985	
	Number	Percent	Number	Percent	Entire Period	Percent Annual Avg.
Leather Products	1,102	1.6	875	1.1	-356	-28.9
Printing & Publishing	2,567	3.6	2,639	3.4	113	4.5
All Other Nondurables	2,617	3.7	2,647	3.4	47	3.4
Transportation and Public Utilities	3,292	4.6	3,348	4.3	88	2.7
Communication and Sanitary Utilities	1,323	1.9	566	0.7	61	4.7
Wholesale and Retail Trade	14,868	21.0	15,872	20.5	1,578	11.0
Finance, Insurance and Real Estate	2,182	3.1	2,414	3.1	364	17.8
Service	17,360	24.5	21,598	28.0	6,660	44.6
Government	4,962	7.0	5,200	6.7	374	7.8

IV Employment Developments and Outlook by Occupation

Job openings that are sent to the DES Employment Service to be filled are compiled into regional Job Bank listings. Job openings located in the Lowell SMSA can be found in the Lawrence Job Bank. As the following table shows, the number of total openings in Job Banks throughout the state as a whole increased substantially (43 percent) from January to July 1976 compared with a meager increase of only three percent during the same time period in the Lawrence Job Bank. In the second half of 1976, the number of openings began to decline; by 68 percent statewide and by 45 percent in the Lawrence Job Bank area. Both experienced over the year net decreases in the number of available openings, a decline of 15 percent statewide and 43 percent in the Lawrence area. Occupations with the most notable abatement in the number of unfilled openings on the Lawrence Job Bank listing occurred in the benchwork occupation where openings diminished by 57 percent and the service occupations*, down by 50 percent over the year. Machine trades occupations were the only category to register an increase, albeit minimal, with openings up by 5 percent over the January-December period.

The occupational groups that consistently accounted for the largest share of unfilled openings in both the Lawrence area and the State as a whole were professional, technical and managerial occupations and clerical and sales occupations, which combined accounted for the largest share of unfilled openings totalling 47 percent in the Lawrence area and 51 percent statewide. In the Lawrence area, these white collar openings, while down over the year, as was total demand for workers, decreased somewhat less than blue collar openings; 33 percent and 50 percent respectively during the January-December 1976 period.

The long term employment outlook for the area projects a shift in the occupational composition toward more white collar employment opportunities by 1985, with professional, technical and kindred, managerial, sales and clerical occupations accounting for a larger share of all occupations. Operatives (except transport) are expected to continue to decline as an occupational group.

- * Service occupations can be found in almost all industries and almost all occupations can be found within the service industry.

Table 5

Employment by Occupation
Lowell Labor Market Area

	1970		1974		Estimated 1978		Protected 1985	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
<u>TOTAL</u>	64839	100.0	67112	100.0	70805	100.0	77268	100.0
Professional, Technical & Kindred	9226	14.2	9924	14.8	10617	15.0	11830	15.3
Managerial	5765	8.9	6564	9.8	6981	9.9	7711	10.0
Sales Workers	3300	5.1	3267	4.9	3469	4.9	3823	5.0
Clerical Workers	11251	17.4	11672	17.4	12634	17.8	14318	18.5
Crafts and Kindred Workers	9870	15.2	9977	14.9	10593	15.0	11671	15.1
Operatives Except Transport	12351	19.1	11973	17.8	12236	17.3	12696	16.4
Transport Equipment Operatives	2251	3.5	2518	3.7	2584	3.6	2699	3.5
Service Workers	7808	12.0	8127	12.1	8550	12.1	9290	12.0
Laborers, Except Farm Farmer & Farm Workers	2727	4.2	2798	4.2	2894	4.1	3063	4.0
	290	0.4	292	0.4	247	0.3	167	0.2

Table 6

Comparison of Unfilled Job Openings by
Major Occupational Category
Lawrence Job Bank - Statewide
January, July, December 1976

Occupational Category	Lawrence			Statewide		
	Jan.	July	Dec.	Jan.	July	Dec.
TOTAL	1,036	1,067	586	5,705	8,139	4,843
Prof., Tech.						
Managerial	177	201	116	1,033	1,723	1,435
Clerical & Sales	238	153	161	1,688	1,358	1,032
Services	125	180	62	816	1,248	682
Farming	13	2	3	25	367	27
Processing	24	21	9	92	103	74
Machine Trades	84	132	88	517	740	580
Bench Work	132	144	57	699	1,115	468
Structural Work	156	92	62	571	1,090	354
Miscellaneous Work	87	142	28	264	395	191

Table 7

Projected Average Annual Job Openings
1974 - 1985 Lowell LMA

Occupational Groups	1974	- 1985	Openings Due to Growth	Openings Due to Separation
	Number	Percent of Total		
<u>TOTAL</u>	3756	100.0	923	2832
Prof., Tech., Kindred				
Managerial	550	14.6	173	377
Sales Workers	333	8.8	104	228
Clerical Workers	197	5.2	51	146
Crafts & Kindred Workers	992	26.4	241	751
Operatives (exc. Trans.)	393	10.5	154	239
Transp. Equipment				
Operatives	66	1.2	16	50
Service Workers	576	15.3	106	470
Laborers (exc. Farm)	86	2.3	24	62
Farmers & Farm Workers	- 2	-0.1	-11	9

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS JOB BANK
MAJOR OCCUPATIONAL CATEGORIES, DIVISIONS AND SELECTED OCCUPATIONAL GROUPS

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
<u>PROFESSIONAL, TECHNICAL, & MANAGERIAL WORK</u>	177	194	182	185	252	207	201	97	115	95	86	116
00,01 ARCHITECTURE & ENGINEERING	28	26	42	33	32	32	20	11	21	17	16	25
003 Electrical engineering	15	13	16	16	11	10	7	7	7			10
005 Civil engineering			12	10	13	11	5					
007 Mechanical engineering											7	7
012 Industrial engineering		5	5						6	5		
02 MATHEMATICS & PHYSICAL SCIENCES	2	12	8	7	2	2	8	5	6	9	7	6
020 Mathematics		10	8	5					5	7	6	5
04 LIFE SCIENCES	26	25	8	8	44	40	25	7	12	4	5	1
045 Psychology	24	24	7	7	40	40	25	7	9		5	
05 SOCIAL SCIENCES		1	3	1				2				
07 MEDICINE & HEALTH	27	33	29	43	37	33	43	29	16	24	23	34
075 Nursing	10	13	10	10	6	9	20	17	12		10	16
078 Medical & dental technology										11	5	
079 Medicine & health, n.e.c.	16	19	17	22	29	24	22	10		9	8	12
09 EDUCATION	8	14	8	10	38	23	19	3		6	7	19
090 College & university education					8							14
091 Secondary school education		5		7	7	10	16					
092 Primary school & kindergarten education					18	9						
10 MUSEUM, LIBRARY, & ARCHIVAL SCIENCES	3	5	5	4	4	1	1				1	1
11 LAW & JURISPRUDENCE	1	1	1	1	1							
13 WRITING			2	3	1		1	2	13	1		2
139 Writing, n.e.c.									10			
14 ART									1	2	1	
15 ENTERTAINMENT & RECREATION	5	1	3		6	4	3			1	4	
16 ADMINISTRATIVE SPECIALIZATIONS	41	28	23	12	13	8	19	10	11	8	6	9
166 Personnel & training administration	13	12	14		5			6				
169 Administrative specialties, n.e.c.	22	7	5			5	11					

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
18 MANAGERS & OFFICIALS, N.E.C.	18	18	19	13	14	22	18	12	14	13	8	5
185 Wholesale & retail trade management								7				
187 Service industry management	8	6	6		6*	6	11					
188 Public administration management		5	5						11	10		
189 Misc. managerial work, n.e.c.			5			6	5					
19 PROFESSIONAL, TECHNICAL, & MANAGERIAL WORK	18	30	34	50	59	39	42	16	21	10	8	14
191 Business relations work, n.e.c.							10					
195 Social & welfare work	12	26	33	44	50	33	27	14	19	9	6	11
199 Misc. prof., tech., & managerial work, n.e.c.				5	9	5	5					
CLERICAL & SALES WORK	238	197	236	284	180	174	153	144	141	267	107	161
20 STENOGRAPHY, TYPING, FILING, & RELATED OCCUPATIONS												
201 Secretarial work	78	91	84	100	78	55	34	49	34	42	45	55
202 Stenography	9	24*	15	13	10	11	5	11	9	11	11	12
203 Typing				10	9	11	5			5		
209 Stenography, typing, filing, & related work, n.e.c.	68	65	65	76*	58	30	22	33	19	23	30	37
21 COMPUTING & ACCOUNT-RECORDING												
210 Bookkeeping	67	43	48	32	32	26	46	35	23	13	19	42
211 Cashiering	7	5		6*	8	5	6*					7
212 Teller service	7		6	6			11	10				
213 Automatic data processing			7									
216 Computing-machine work	18	19	18	13*	22*	8*	10*	10	10			20
219 Computing & account recording, n.e.c.	9											
	23	12	18*	5		7	16*	9	6	6	6	6
22 MATERIAL & PRODUCTION RECORDING												
222 Clerical work, shipping & receiving	4	5	8	5	3	7	4	11	6	26	1	2
223 Stock checking & related work			5			5				23		
23 INFORMATION & MESSAGE DISTRIBUTION												
235 Telephone work	6	9	7	36	7	4		3	29	90	5	
237 Reception & information dispensing work	5	6										
239 Information & message distribution, n.e.c.				50	6				25	83		
24 MISCELLANEOUS CLERICAL WORK												
240 Collecting	4	6	44	26	20	11	5	4	15	32	7	4
242 Hotel desk work, n.e.c.			11	5						6		
249 Misc. clerical work, n.e.c.			9	12	9							
			24	9*	10				10	26		

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
25 SALES AGENTS, SERVICES	15	18	21	22	19	13	13	8	11	10	11	16
250 Saleswork, real estate & insurance	15*	18*	20	22*	19*	13	13	8	11	10	11	16
26, 27, 28 SALES AGENTS & SALESPERSONS, COMMODITIES	11	9	15	11	8	19	9	13	11	43	11	17
275 Saleswork, hotels & restaurant equipment & supplies						7						
289 Saleswork, commodities, n.e.c.		5	6	5				6	6	33		11
29 MERCHANDISING OCCUPATIONS, EXCEPT SALES AGENTS	53	16	9	32	13	39	42	21	12	11	8	25
290 Sales clerking	5			5*	10	19	12		5			
292 Route work												
293 Canvassing & soliciting			6				19	12				9
297 Demonstrating & modeling												15
299 Misc. merchandising work, n.e.c.	47	15		22		14	11	5*	6			
SERVICES												
30 DOMESTIC SERVICE	125	183	429	334	258	194	180	396	161	98	99	62
301 Day work	30	25	40	7	19	22	35	26	16	11	11	7
304 Caretaker & yard work	16	13	11				11					
306 Housework, domestic	5		20				6					
307 Child monitor	5		6		14	16	17	21	11*	8*	8	5*
31 FOOD & BEVERAGE PREPARATION & SERVICE												
311 Food serving	36	62	116	119	122	102	60	211	77	36	40	19
312 Bartending	18	24	58	43	81	67*	36*	116*	36*	13	20*	8
313 Cooking, large hotels & restaurants	6	12	16	16	5*			9	5		7	
314 Cooking, small hotels & restaurants	5*	8*	7	13*	6			6*				
315 Misc. cooking, except domestic	5	5						8				
318 Kitchen work, n.e.c.		10	30	37*	28	19*	13	55*	20*	11		
32 LODGING & RELATED SERVICE												
323 Cleaner & related services, hotels, restaurants, & rel. establishments	4	5	23	30	27	27	42	49	8	6	4	6
33 BARBERING, COSMETOLOGY, & RELATED SERVICE												
334 Masseuse & related services	4	4	19					3	2	3	3	1
34 AMUSEMENT & RECREATION SERVICE												
342 Amusement device & concession work					6	9	9	1			1	
35 MISCELLANEOUS PERSONAL SERVICE					6	5						
354 Unlicensed birth attendant & practical nursing services	11	7	12	18	15	15	17	34	18	19	19	7
355 Attendant work, hosps., morgues, & rel. health services								21				
356 Animal care, n.e.c.	10	5	8	12	6	9	10		16	18	17	
359 Misc. personal services, n.e.c.						5	7	6				

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAURENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
36 APPAREL & FURNISHINGS SERVICE												
361 Laundering service	5	6	4	8	1	2	1	6	2	6	1	7
363 Pressing service		6		5						5		7
37 PROTECTIVE SERVICE												
372 Guard & related services	16	37	183	133	49	14	11	37	15	9	2	
373 Fire protection service	6	29	88	45*	27	9	9	36*	15	9		
375 Police & related work, public service		5			10							
379 Protective services, n.e.c.			88	86	5							
38 BUILDING & RELATED SERVICE												
381 Cleaning & related services	23	37	32	19	19	12	5	29	23	8	18	15
382 Janitorial services	19	23	24	16	15	10	5	27	22	8	18	15*
		14	8									
<u>FARMING, FISHERY, FORESTRY, & RELATED WORK</u>												
40 PLANT FARMING												
404 Fruit & nut farming	13	9	14	20	47	16	2	7	14	3	3	3
407 Gardening & groundskeeping												
	13	9	13	20	43	16	2	6	14	1	1	
	10	9	13	20	43	13		5	9			
									5			
41 ANIMAL FARMING												
								1				1
42 MISCELLANEOUS FARMING & RELATED WORK										2	2	2
44 FORESTRY					4							
			1									
<u>PROCESSING</u>												
50 PROCESSING OF METAL												
	24	20	40	26	19	41	21	29	15	17	11	9
	1				4					2		
51 ORE REFINING & FOUNDRY												
518 Molding, coremaking, & related work	7	7		8								
519 Ore refining & foundry work, n.e.c.	6	6		8								
52 PROCESSING OF FOOD, TOBACCO & REL. PRODUCTS												
525 Slaughtering, breaking, curing, & related work	6	6	1	2		6	5	9	9	7	1	
									7	6		
53 PROCESSING OF PAPER & RELATED MATERIALS												
			1									
55 CHEMICALS, PLASTICS, SYNTHETICS, RUBBER, PAINT, & RELATED PRODUCTS												
550 Coating & molding, n.e.c.	10	5	31	3	4	2	9	9	1	2	7	2
558 Reducting, n.e.c.			25					5			7	
559 Processing, chemicals & rel. prod., n.e.c.	6						7*					

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
57 STONE, CLAY, GLASS, & RELATED PRODUCTS	1					1	1	3				
58 LEATHER, TEXTILES, & RELATED PRODUCTS												
582 Washing, steaming, & saturating	5	2	7	12	9	15	5	7	5	4	3	7
583 Ironing, pressing, glazing, staking, calendering, & embossing						5	5	5				
589 Processing, leather & textiles, n.e.c.				5*								
59 PROCESSING OCCUPATIONS, N.E.C.				1	2	1	1	1		2		
<u>MACHINE TRADES</u>												
60 METAL MACHINING												
600 Machining & related work												
601 Toolmaking & related work	84	104	106	107	120	37	132	143	140	158	113	88
603 Abrading	14	13	19	15	14	13	14	22	20	26	31	20
604 Turning	7*	8	12	8*	8	7	5	12*	5	7	11	8*
											6	5*
							6	6	12	10	10	
61 METALWORKING OCCUPATIONS, N.E.C.												
616 Fabricating machine work			2	2	3	4	8	9	12	12	1	2
617 Metal forming, n.e.c.								5		5		
619 Misc. metalworking, n.e.c.									7	5		
62, 63 MECHANICS & MACHINERY REPAIRERS												
620 Motorized vehicle & engineering equipment repairing	15	21	24	20	14	16	30	32	14	18	18	13
638 Misc. machine installation & repairing	11*	15	20	14*	10	9	7*	10	11	11	15	9*
							17	20				
64 PAPERWORKING	2	1	1			1						
65 PRINTING	1	2	2	2		1	2	2	2	2	2	
66 WOOD MACHINING												
669 Wood machining, n.e.c.	2	4	1	2		2	10	9	1	5	10	3
							8	7		5	9	
67 MACHINING STONE, CLAY, GLASS, & REL., MATERIALS							1					
68 TEXTILE												
680 Carding, combing, drawing, & rel. work	23	25	37	34	40		44	44	37	43	15	13
681 Twisting, beaming, warping, & rel. work			6							8	5	
683 Weaving & related work	14	14	25	25	25		19	19	19	19	8	8
684 Hosiery knitting				11			15	19	15	15		
689 Textile machine work, n.e.c.												

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
69 MACHINE TRADES OCCUPATIONS, N.E.C. 690 Plastics, synthetics, rubber, & leather working	27	38	20	38	49		23	25	54	52	39	37
	23	36	18	36	41		23	24	54	52	39	37
<u>BENCH WORK</u>	132	151	145	96	112	141	144	145	132	125	58	57
70 FABRICATION, ASSEMBLY, & REPAIR OF METAL PRODUCTS, N.E.C. 704 Engraving, etching, & related work 705 Filing, grinding, buffing, cleaning, & polishing, n.e.c. 706 Metal unit assembling & adjusting, n.e.c.	6	6	6	2	2	3	12	1		7	2	
			6				7			7		
71 FABRICATION & REPAIR OF SCIENTIFIC & MEDICAL APPARATUS, PHOTOGRAPHIC & OPTICAL GOODS, WATCHES & CLOCKS, & RELATED PRODUCTS 712 Fabrication & repair of surgical, medical, & dental instruments & supplies	3	2	1	1		1	1	2	16	4		2
									15			
72 ASSEMBLY & REPAIR OF ELECTRICAL EQUIPMENT 726 Assembly & repair of electronic components & accessories, n.e.c. 729 Assembly & repair of electrical equipment, n.e.c.	13	6	33	10	19	45	56	60	64	41	18	18
	10		23	7	12	43*	51	51	54	29	10	15
					5							
73 FABRICATION & REPAIR OF PRODUCTS MADE FROM ASSORTED MATERIALS 731 Fabrication & repair of games & toys 739 Fabrication & repair of products made from assorted materials, n.e.c.						13	4	3	1	4		
						5						
						8*						
74 PAINTING, DECORATING, & RELATED OCCUPATIONS 740 Brush painting	6	6	5	1	6	1		3	2	3	3	2
					6							
75 FABRICATION & REPAIR OF PLASTICS, SYNTHETICS, RUBBER, & RELATED PRODUCTS	1		1			1				3	1	2
76 FABRICATION & REPAIR OF WOOD PRODUCTS 763 Fabrication & repair of furniture, n.e.c.				5			2		1	1	1	
				5								
77 FABRICATION & REPAIR OF SAND, STONE, CLAY, & GLASS PRODUCTS	1	1	1						1	1	1	

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
78 FABRICATION & REPAIR OF TEXTILE, LEATHER, & RELATED PRODUCTS												
781 Laying out, marking, cutting, & punching, n.e.c.	102	130	98	77	85	77	69	71	46	61	33	33
786 Machine sewing, garment	49	54*	32	20	23	31	30	18	9	30	23	18
787 Machine sewing, nongarment	37	52	50	48	45	38	30	25*	23*	20	6	6
788 Fabrication & repair of footwear	5	6	8	5	5	6	6	20	11	9	5	5
79 BENCH WORK OCCUPATIONS, N.E.C.												
794 Fabrication of paper products, n.e.c.								5	1			
								5*				
STRUCTURAL WORK												
80 METAL FABRICATING, N.E.C.												
804 Sheet metal work	156	108	87	106	203	163	92	60	88	52	60	62
807 Body work, transportation equipment	18	1	3	8	3	12	6	10	6	15	8	11
809 Misc. metal fabricating, n.e.c.	15							6		8		7
81 WELDERS, FLAME CUTTERS, & RELATED WORK												
	1	7	3	5	3	1	3	7	2	6	3	4
82 ELECTRICAL ASSEMBLING, INSTALLING, & REPAIRING												
824 Lighting equipment & building wiring assembly, installation, & repair, n.e.c.	8	2	3	6	7	7	7	10	10		4	4
829 Assembly, installation, & repair of electrical products, n.e.c.				5	5	5	6	5				
				5								
84 PAINTING, PLASTERING, WATERPROOFING, GROUTING, & RELATED WORK												
840 Construction & maintenance painting & related work	3	1	2	25	31	13	7	8	12			3
841 Paperhanging				17	29	10			8			
				6								
85 EXCAVATING, GRADING, PAVING, & RELATED WORK												
850 Excavating, grading, & related work	2	2	2	24	5	5	2	3	1	1	6	5
859 Excavating, grading, paving, & related work, n.e.c.				22								
86 CONSTRUCTION OCCUPATIONS, N.E.C.												
860 Carpentry & related work	108	78	50	43	79	101	64	19	44	21	20	17
862 Plumbing, gas fitting, steam fitting, & related work	11	17	10	15	13	23	7		30*	11		
869 Misc. construction work, n.e.c.	22	20	5	6*	6			6*				
	75	41	31	17	50	71	51	8	9		13	14

Table 8

UNFILLED JOB OPENINGS LAST DAY EACH MONTH 1976
LAWRENCE, MASSACHUSETTS
(Continued)

OCCUPATIONAL GROUP	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
89 STRUCTURAL WORK OCCUPATIONS, N.E.C. 899 Misc. structural work, n.e.c.	16 15	17 16	24 22	19 18	56 53	24 24	3 3	3	13 12	9 9	19 19	18 18
<u>MISCELLANEOUS WORK</u>												
90 MOTOR FREIGHT 905 heavy truck driving 906 Light truck driving	87 17 16	98 14 12*	123 2	122 4	105 4	74 9 6	142 3	107 8	104 9 7	51 4	18 3	28
91 TRANSPORTATION OCCUPATIONS, N.E.C. 913 Passenger transportation, n.e.c. 915 Parking lot & related service work 919 Misc. transportation work, n.e.c.	10 7	12 8	9 5	11 9	13 9	4	4 7 8*	18	20 13 6	2	7 5	3
92 PACKAGING & MATERIALS HANDLING 920 Packaging 922 Materials moving & storing, n.e.c. 929 Packaging & materials handling, n.e.c.	58 58	70 66	109 25	104 31 6*	70 25 5*	43 33 7	127 59 13*	77 30 16*	72 29 9*	43 25 9	3	21 11 10
93 OCCUPATIONS IN EXTRACTION OF MINERALS				1	2		1				1	
94 OCCUPATIONS IN LOGGING							2				1	
95 PRODUCTION & DISTRIBUTION OF UTILITIES 954 Filtration, purification, & distribution of water	2	2		1	10	13	2	1	1	1	1	2
97 GRAPHIC ART WORK 979 Graphic art work, n.e.c.			3	1	6	9	3	3	2	1	2	2
GRAND TOTAL	1,036	1,064	1,362	1,280	1,296	1,047	1,067	1,121	910	866	555	586

* Includes out-of-state openings.

V. Recent Unemployment Trends and Outlook

The unemployment rates in both the Lowell IMA and the City of Lowell have improved over the 1975-1976 period reflecting the general upturn in the economic climate as experienced throughout the state and the nation. In 1976 the annual average unemployment rate of the IMA at 10.5 percent registered an improvement of 1.9 percentage points over the 1975 average. The city of Lowell with a 1976 average annual unemployment rate of 11.1 percent also notes an improvement (+1.2 percent) over 1975. However, although some economic amelioration has taken place in the IMA, the 1976 averages still place it at a relative disadvantage to both the state which report a 1976 rate of 9.5 percent and the nation with a rate of 7.7 percent for 1976:

During FY 1978, the unemployment rate in the IMA is expected to continue its decline with a projected annual average of 8.8 percent. Of the three sub-groups for which projections are available, white females should fare the best with an unemployment rate of 8.5 percent. This can be partly attributed to the expansion of the service sector of the economy which traditionally employs women and youths. White males follow with a projected unemployment rate of 9.0 percent, then nonwhite males with a rate of 10.1 percent.

The number of different individuals unemployed during FY 1978 should be approximately 29,000, three times the average number unemployed during the year. The number of different persons unemployed during a year give one indication of the size of the unemployment problem in the coming year while the amount of long-term unemployment* gives another aspect. White males should have the largest proportion of long-term unemployment of the three groups for which projections are available with approximately 36 percent of all those unemployed in this category, followed by nonwhite males at 32 percent and white females at 25 percent of total unemployment.

* Unemployed 15 weeks or more

Table 9
 Lowell Labor Market Area#
 Labor Force and Unemployment Statistics
 for 1976
 (In Thousands*)

Month	Labor Force	Employment	Unemployment	
			Number	Rate
January	105.9	91.8	14.0	13.3
February	105.3	92.2	13.1	12.5
March	106.1	93.3	12.8	12.1
April	105.1	94.3	10.9	10.3
May	105.2	94.5	10.6	10.1
June	106.7	95.0	11.8	11.0
July	104.7	92.6	12.1	11.6
August	105.2	94.4	10.8	10.3
September	104.5	94.7	9.8	9.3
October	103.3	94.3	9.0	8.7
November	103.9	94.8	9.0	8.7
December	105.7	96.9	8.8	8.3
Annual Average	105.1	94.1	11.1	10.5

The Lowell LMA and Lowell CETA Consortium are identical so the above statistics apply to both.

* May not add due to rounding.

Table 10
City of Lowell
Labor Force and Unemployment Statistics
for 1976
(In Thousands*)

Month	Labor Force	Employment	Unemployment	
			Number	Rate
January	49.9	42.9	7.0	14.0
February	49.6	43.0	6.5	13.2
March	49.9	43.6	6.4	12.8
April	49.4	44.0	5.4	10.9
May	49.4	44.2	5.3	10.7
June	50.2	44.3	5.9	11.7
July	49.3	43.3	6.0	12.2
August	49.5	44.1	5.4	10.9
September	49.1	44.2	4.8	9.9
October	48.5	44.0	4.5	9.2
November	48.8	44.3	4.5	9.2
December	49.6	45.2	4.4	8.8
Annual Average	49.4	43.9	5.5	11.1

* May not add due to rounding

VI. Individuals in Need of Manpower Services

Persons with low skills and educational levels are always in need of manpower services but the universe of need is expanded under economic conditions such as those projected for FY 1978. During the next fiscal year, although the economic situation of the IMA should continue to improve the unemployment rate is still expected to be around 8.8 percent. Persons out of work, some of them middle-aged and displaced due to a decline or change in the technology of the industry in which they were employed, will need specialized employment and training services.

These unemployed persons, especially the long-term unemployed, as well as those employed part time for economic reasons will join the economically disadvantaged as some of those who will be in need of manpower services during FY 1978. There should be an estimated 3,000 long-term unemployed as well as 29,000 different individuals unemployed during some time in the fiscal year.

The economically disadvantaged are defined as members of families which receive cash welfare payments, or whose annual income in relation to family size and location does not exceed the most recently established poverty levels determined in accordance with criteria established by the Office of Management and Budget. There will be an estimated 12,300 economically disadvantaged persons 18 years old or over and about 4,300 individuals employed part-time for economic reasons. For further breakdowns, see Tables 11 and 12.

Table 11

ADDITIONAL UNEMPLOYMENT PROJECTIONS

FISCAL YEAR 1978

Lowell IMA

	Unemployment	Unemployment Rate	Long-Term Unemployment	Number of Different Individuals Unemployed During Year
TOTAL	9,668	8.8	3,035	29,004
White Male	5,728	9.0	2,049	
White Female	3,887	8.5	972	
Nonwhite Male	44	10.1	14	
Nonwhite Female	INA*	INA*	INA*	

* Figures too small to make accurate projections

Table 12

ADDITIONAL PLANNING DATA PROJECTIONS

FISCAL YEAR 1978

Lowell LMA

	Employed Part-Time for Economic Reasons
TOTAL	4,254
White Male	2,022
White Female	2,210
Nonwhite Male	24
Nonwhite Female	INA*

	Economically Disadvantaged 18 Years and Over
TOTAL	12,322
White	11,958
Black	197
Other	49
Spanish	INA

* Figures too small to make accurate projections

VII. Labor Supply Demand/Imbalances

A. Available Applicants

The Employment Service Automated Reporting System (ESARS) reported 5,128 active applicants on file in the Lowell DES Employment Office as of December 31, 1976. Of these 47.7 percent were female and 6.5 percent were minority group members. A breakdown by age reveals that 19.4 percent were under 22 years and 16.6 percent were 45 years or older. 43.8 percent of all applicants were classified as economically disadvantaged.

The clerical and sales occupations accounted for the largest number of active applicants with 24 percent of the total. The second largest number fell into the miscellaneous category with 15 percent. This category includes truck drivers, service station and parking attendants, and various material handling and packaging occupations. Many applicants in these occupations generally have low skill and educational levels and cannot readily be placed in other types of work.

B. Available Job Opportunities

For the month of December 1976 there were 586 openings listed with the Lawrence Job Bank for the northeastern Massachusetts area. This represents a 36 percent drop in openings from September 1976 and 131 less openings than were listed for December one year ago.

In December the largest number of openings (161) were in the clerical and sales occupations with professional, technical and managerial occupations having the next largest amount with 116 listings. Within the Lowell Labor Market Area there were 102 openings representing 17 percent of the total. Here again the largest number of openings were in the clerical and sales occupations, however the next highest number of openings for the area were in the machine trades occupations.

The over-the-year decrease in openings occurred in the occupations that can be classified as blue collar. There were 22 percent fewer listings for these occupations in December 1976 than in December 1975. Over this same time period the white collar occupations had a 10 percent increase in openings listed with the Lawrence Job Bank.

Table 13
Active Applicants
and
Available Job Openings
December 1976

Occupational Categories	Active Applicants Lowell ESARS	Openings Lawrence Job Bank	Openings Lowell LMA	Ratio Applicants to Lowell LMA Openings
TOTAL	5,128	586	102	50.3
Professional, Technical, Managerial	606	116	21	28.5
Clerical and Sales	1,230	161	28	43.9
Services	636	62	4	159.0
Farming, Fishery, Forestry	49	3	0	--
Processing	171	9	5	34.2
Machine Trades	433	88	27	16.0
Benchwork	519	57	13	39.9
Structural	717	62	2	358.5
Miscellaneous	767	28	2	383.5

Table 14

Percentage Composition
of
Active Job Applicants - Lowell Office
and
Job Openings - Lawrence Job Bank
By Major Occupational Categories

Occupational Categories	Percentage Applicants	Percentage Openings	Percentage Unfilled 30 Days
TOTAL	100.0	100.0	100.0
Professional, Technical, Managerial	11.8	14.8	17.6
Clerical and Sales	24.0	26.7	18.3
Services	12.4	12.9	3.8
Farming, Fishery, Forestry	1.0	0.4	1.5
Processing	3.3	1.8	3.1
Machine Trades	8.4	17.9	28.2
Benchwork	10.1	12.0	16.8
Structural	14.0	8.7	9.9
Miscellaneous	15.0	4.8	0.8

Table 15

Job Openings
Lawrence Job Bank

Occupational Categories	O p e n i n g s		
	December 1976	September 1976	December 1975
TOTAL	586	910	717
Professional, Technical and Managerial	116	115	97
Clerical and Sales	161	141	152
Services	62	161	118
Farming, Fishery, Forestry	3	14	0
Processing	9	15	20
Machine Trades	88	140	18
Benchwork	57	132	101
Structural	62	88	73
Miscellaneous	28	104	38

Table 16

Selected Occupations of Applicants and Job Openings
Listed with the Lawrence Job Bank
December 1976

Occupations	A p p l i c a n t s				O p e n i n g s		
	Lowell ESARS Active Applicants	Under 22	Over 45	Minority	Openings Dec. '76	Unfilled 30 Days	Ratio Applicants To Openings
TOTAL	5,128	979	701	294	586	131	8.7
Professional, Technical and Managerial	606	29	114	20	116	23	5.2
Architects & Engineers	133	6	28	2	25	6	5.3
Medicine & Health	41	4	0	5	34	8	1.2
Education	41	1	3	1	19	0	2.2
Accountants, Auditors, and Administrative	104	11	30	1	9	1	11.5
Managers Wholesale and Retail	48	4	7	1	1	0	48.0
Social & Welfare Workers	13	0	3	3	11	6	1.1
Clerical and Sales	1,230	222	175	42	161	24	7.6
Secretaries	123	21	15	3	12	0	10.2
Stenography, Typing and Filing	214	46	28	8	43	13	4.9
Account Recording	251	40	39	9	42	1	5.9
Shipping, Receiving and Stock	117	18	13	7	2	0	58.5
Sales Clerk	66	16	22	2	12	0	5.5

Table 16

Selected Occupations of Applicants and Job Openings
Listed with the Lawrence Job Bank
December 1976
(continued)

Occupations	A p p l i c a n t s				O p e n i n g s			Ratio Applicants To Openings
	Lowell ESARS Active Applicants	Under 22	Over 45	Minority	Openings Dec. '76	Unfilled 30 Days		
Services	636	141	95	43	62	5		10.2
Maids, Domestic & Hotel	11	3	2	0	9	0		1.2
Food Serving	93	23	11	3	8	0		11.6
Cooks	44	10	5	3	7	1		6.3
Attendants, Health								
Services	82	11	16	7	4	1		20.5
Guards	40	4	10	5	0	0		--
Farming, Fishery & Forestry	49	22	7	7	3	2		16.3
Gardening & Groundskeeping	36	20	4	4	0	0		--
Processing	171	22	18	19	9	4		19.0
Cooking & Baking	10	3	0	0	0	0		--
Casting & Holding	12	2	2	4	1	1		12.0
Machine Trades	433	84	49	38	88	37		4.9
Machinists & Metal								
Fabricating	27	8	4	1	8	0		3.3
Motorized Vehicle &								
Eng. Equipment Repair	71	16	6	1	9	4		7.8
Textile Occupations	51	9	9	9	13	9		3.9
Plastics, Synthetics								
Rubber & Leather Working	26	6	3	2	37	20		0.7

Table 16

Selected Occupations of Applicants and Job Openings
Listed with the Lawrence Job Bank
December 1976
(continued)

Occupations	A p p l i c a n t s				O p e n i n g s			Ratio Applicants To Openings
	Lowell ESARS Active Applicants	Under 22	Over 45	Minority	Openings Dec. '76	Unfilled 30 Days		
Benchwork	519	100	81	36	57	22		9.1
Electronic Component Assembly & Repair	207	45	38	7	15	1		13.8
Machine Sewing	24	6	5	4	6	0		4.0
Nongarment	37	9	8	7	5	0		7.4
Fabrication & Repair of Footwear	717	158	83	22	62	13		11.5
Structural	17	2	1	0	7	0		2.4
Sheet Metal	13	1	4	0	1	0		13.0
Welders Arc	53	16	10	1	3	0		17.6
Painters, Construction and Maintenance	112	31	16	4	1	0		112.0
Carpenters and Related								
Miscellaneous	767	201	79	67	28	1		27.3
Truck Drivers	132	10	13	8	0	0		--
Packaging	145	39	25	18	0	0		--
Material Moving	107	27	12	12	11	0		9.7

VIII. Training Programs

CETA: The Comprehensive Employment and Training Act of 1973 was enacted to provide job training and employment opportunities to economically disadvantaged, unemployed and underemployed persons in order to maximize employment opportunities and enhance self sufficiency. CETA has a number of types of opportunities under Title I, Title II, and Title VI of the Act. Title I is devoted to classroom training, work experience, and on the job training. Title II and Title VI provide emergency public service employment.

In reviewing the wages of CETA Title I participants before and after training for the first quarter fiscal 1977, it does not appear that there is a significant increase in pay rates. Before entering CETA training, 61 percent of the participants had received wages of less than \$3.00 an hour. Upon completion of training 44 percent were still earning less than \$3.00 an hour. However, to really assess the impact of CETA training on earning ability, it would be helpful to see the actual average hourly wage increases of the participants. Also in order to evaluate the overall effects of CETA training one should look at other factors such as the long term earning potential of the position and the opportunities for advancement.

CEP: The Concentrated Employment Program is funded through the local CETA program to train the unemployed in new job skills. CEP provides classroom training in the following occupations: clerical, culinary arts, electronic assembly and repair, machine trades and welding.

From October 1, 1975 through September 30, 1976 a total of 259 persons received training in these various skills. Of the total number of enrollees, 127 (49 percent) were placed in employment upon completion of the training course. The electronics component had the highest placement rate with 78 percent, culinary arts and machine trades also posted placement rates above 50 percent. Clerical and welding had low rates with 30.7 percent and 28.2 percent respectively.

WIN: The Work Incentive Program provides job counselling, training and placement assistance to recipients of Aid to Families with Dependent Children. As of December 1976 the Lowell WIN office had 288 new applicants referred to them for service. At that time there were 10 persons enrolled in institutional training, 18 persons receiving on-the-job training, and 34 persons placed in employment.

Table 17
 Characteristics of Participants
 in
 Lowell CETA Program
 October 1, 1976-December 31, 1976

	CETA Title I		CETA Title II	
	Total Participants	Percent That Entered Employ.	Total Participants	Percent * That Entered Employ.
TOTAL	1,017	14.4	347	11.0
Male	611	15.4	239	10.0
Female	406	12.9	108	13.0
18 and under	306	7.8	25	12.0
19-21	248	20.1	50	6.0
22-44	405	16.1	198	11.1
45-54	45	13.3	50	16.0
55-64	13	7.7	23	8.7
65 and over	0	0	1	--
0-8 years schooling	153	6.5	29	3.4
9-11 years schooling	472	10.8	58	12.1
High School Graduate	315	21.3	179	11.7
Post High School	77	23.4	81	11.1
AFDC Recipients	178	6.7	19	10.5
Economically Disadvantaged	883	13.4	131	12.2
White	945	14.0	335	11.0
Black	59	20.3	6	16.6
Spanish American	181	15.5	5	20.0
Limited English Speaking Ability	108	8.3	6	16.6

Source: CETA Quarterly Summary

The above chart list participants in the CETA Program for the first quarter Fiscal 1978 and many were still enrolled at the end of that time period.

* CETA Title II participants are considered employed when they complete their Public Service Employment Period and obtain a job that is non-CETA funded.

Table 18

Wages of CETA Participants
Before Participation and Upon Entering Employment
October 1, 1976-December 31, 1976

Wages Per Hour	CETA Title I		CETA Title II	
	Before Participation	Upon Entering Employment	Before Participation	Upon Entering Employment
No Previous Wage	5		0	0
Less Than \$2.00	6	0	5	0
\$2.00-\$2.99	67	56	7	1
\$3.00-\$3.99	42	54	10	16
\$4.00-\$4.99	11	17	8	13
\$5.00-\$5.99	3	6	2	6
\$6.00 or More	3	4	1	2

Source: CETA Quarterly Summary

Table 19

Enrollees and Placements
 Lowell CEP Classroom Training
 October 1, 1975-September 30, 1976

	Number of Enrollees	Number Placed	Percent Placed
TOTAL	259	127	49.0
Clerical Skills	75	23	30.7
Culinary Arts	21	13	61.9
Electronics	59	46	78.0
Machine Trades	65	34	52.3
Welding	39	11	28.2

Table 20

Characteristics of New Applicants
 Lowell WIN
 September 1, 1976-December 31, 1976

	Applicants	Percentage
TOTAL	288	
Female	155	53.8
Black	6	2.0
Spanish	17	5.9
Under 22	8	2.7
Over 45	24	8.3
Less Than High School Education	175	60.8
Handicapped	39	13.5
Veterans	51	17.7
Vietnam Era	22	7.6
Not Working	259	89.9
Economically Disadvantaged	288	100.0

Source: ESARS

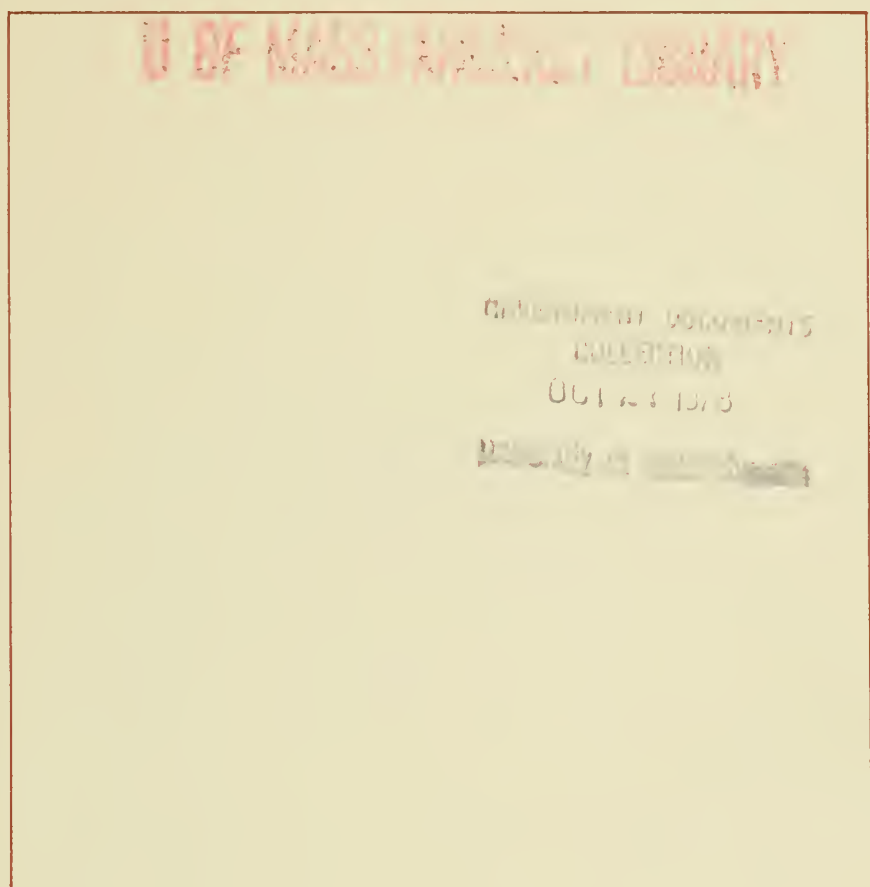
MASS MA 20.27/20/979

INFORMATION REPORT

JOHN F. HODGMAN, DIRECTOR, AFFILIATED WITH

MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY,

EMPLOYMENT AND TRAINING ADMINISTRATION, U.S. DEPARTMENT OF LABOR



ANNUAL PLANNING

PORT FISCAL YEAR 1979

LOWELL LMA

**JOB
SERVICE**

ANNUAL PLANNING INFORMATION REPORT

FISCAL YEAR 1979

LOWELL, MASSACHUSETTS

LABOR MARKET AREA

Prepared by: Peter Maloy
Senior Labor Market Economist
Labor Area Research Department
Massachusetts Division of
Employment Security
Charles F. Hurley Building
Government Center
Boston, Massachusetts 02144

THE UNIVERSITY OF CHICAGO



THE UNIVERSITY OF CHICAGO

P R E F A C E

The purpose of the Annual Planning Information (API) report is to provide an analysis of recent and anticipated employment and unemployment developments by industry, labor demand and supply relationships, characteristics of the insured unemployed, as well as unfilled job openings and applicant data. The API report will hopefully meet many of the information needs of CETA planners, State and local officials, business, labor and other user groups in the Community.

TABLE OF CONTENTS

	<u>Page</u>
Preface.	ii
Table of Contents	iii
Tables and Illustrative Material.	iv
Area Profile.	vi
I. Highlight	1
II. Population and Labor Force Characteristics and Trends.	2
III. Employment Developments by Industry	7
IV. Hours and Earnings/Labor Turnover	13
V. Recent Unemployment Trends and Outlook.	18
VI. Data on the Insured Unemployed.	22
VII. Labor Supply/Demand Imbalances.	35
VIII. CETA Activities and the Need of Manpower Services	45
IX. Outlook	53

TABLES AND ILLUSTRATIVE MATERIAL

Page

Map of the Lowell LMA	i
---------------------------------	---

Tables

1. Lowell LMA Population Projections	4
2. Lowell Population Composition Projections for July 1, 1979.	5
3. Population and Labor Force Composition Projections Fiscal Year 1979.	6
4. Employment in Various Industry Groups October 1977 - March 1978	11
4a. Employment in Various Industrial Groups October 1976 - September 1977	12
5. Lowell Area Manufacturing Hours and Earnings of Production Workers	14
6. Lowell Area Hours and Earnings for total manufacturing and Nondurable Goods Manufacturing 1968-1977.	15
7. Private Employment and Wages Calendar Years 1976 and 1975	16
8. Labor Turnover by Industry.	17
9. Lowell LMA, Massachusetts & U.S. Unemployment Rates, 1974 through March 1978.	19
10. City of Lowell, Labor Force Data 1974 through March 1978	20
11. Claimants Paid Regular U.I. Benefits by Residence in the Lowell LMA January through March 1978 Survey Weeks	21
12. Selected Characteristics of Insured Unemployed.	24
13. Occupations of the Insured Unemployed	26
13a. Occupations of the Insured Unemployed	29
14. Age and Average Weekly Earnings of the Insured Unemployed.	33
15. Duration Most Recent Spell of Unemployment	34

TABLES AND ILLUSTRATIVE MATERIAL (CONTINUED - 2)

	<u>Page</u>
16. ES Job Bank Openings Lawrence, Massachusetts April, 1978	36
17. ES Job Openings, and Percent Distribution of Openings by Selected Industry Group Lawrence April, 1978.	37
18. Total ES Job Bank Openings and Average Pay by Selected Industry Group Lawrence April, 1978	40
19. Active Applicants and Available Job Openings March, 1978	43
19a. Ranking of Active Applicants, Claimants Job Openings and Jobs Filled by Occupation Lowell LMA October 1, 1977-March 31, 1978	44
20. 1978 Poverty Income Guidelines.	45
21. Economically Disadvantaged 18 Years and Over.	46
22. Projected Number of Persons in Nonagricultural Industries on a Part-time Status for Economic Reasons	46
23. Low Income Households	47
24. Lowell Consortium, Adjustments for Family Size Differences.	48
25. Lowell Consortium, Enrollment in CETA Program Activities, Year-to-Date March 1978	50
26. Lowell Consortium, CETA Program Status Summary, Grant Year-to-Date Plan March 1978.	51
27a. & Lowell Consortium, Youth Program	
27b. Status Summary.	52

2 in (muddy) (muddy) (muddy)

AREA PROFILE

AREA DEFINITION

The Lowell Labor Market Area is located within Middlesex County, largely in the Merrimack Valley at the confluence of the Merrimack and Concord Rivers. The LMA consists of the city of Lowell, and the towns of Billerica, Chelmsford, Dracut, Dunstable, Tewksbury, Tyngsborough and Westford, encompassing approximately 171.4 square miles. The Lowell CETA area covers the same municipalities as the Lowell LMA.

POPULATION

1970 U.S. Census: 214,152 - an increase of 29.7 percent (49,084) from the 165,067 counted in the 1960 U.S. Census. Projection for 1979 population: 228,403, an increase of 6.7 percent (14,251) from 1970.

CIVILIAN LABOR FORCE

It is projected it will be 109,194 in July 1979.

NONAGRICULTURAL WAGE & SALARY EMPLOYMENT

Estimate for March 1978, 63,900, up 5.8 percent (3,500) from the March 1977 level of 60,400.

MANUFACTURING PERCENTAGE OF NONAGRICULTURAL WAGE AND SALARY EMPLOYMENT

In March 1978, it was 35.8 percent.

MOST IMPORTANT INDUSTRIES IN TERMS OF EMPLOYMENT

Manufacturing, Wholesale and Retail Trade, Services, and Government.

GEOGRAPHICAL LOCATION

Limited Access Routes 3 and 495 provide commercial-over-the-road transportation. Route 495 connects with Route 93, a limited access interstate Highway. Driving time to Logan International Airport is 45 minutes.

Greater Lowell is the most compact of the regional planning districts, consisting of the central city and eight surrounding towns. The compactness is misleading, however, because the region's economic and growth patterns overlap those of Greater Boston to the south and the Merrimack Valley district to the east. This overlap has helped to make Greater Lowell the fastest growing metropolitan area in the state. A southern ring of suburbs (Westford, Chelmsford, Billerica, Tewksbury) straddles Routes 495 and 3, and their rapid expansion in population and industrial capacity is due as much to the sprawl of Greater Boston as to the suburbanization of Lowell. The region's other towns have also grown significantly, and Lowell itself has actually gained population since 1960.

Industrial Development: Like all areas on the I-495 fringes of Eastern Massachusetts, Northern Middlesex has undergone extensive industrial park development in the suburbs; simultaneously, the textile base of Lowell's economy was eroding. More recently, however, a number of firms have decided to stay in Lowell, expand in Lowell, or move in from the outside, diversifying the Lowell economy and slowing the trend towards a suburbanization of industry.

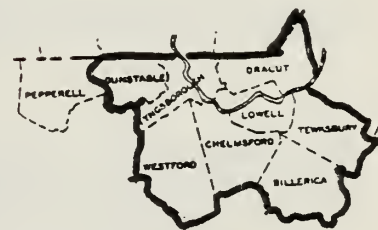
Center Revitalization: Lowell has set the standard for those Massachusetts cities which seek to revitalize their downtowns through a comprehensive strategy emphasizing preservation rather than traditional urban renewal. In addition to the city's state-funded Heritage Park, the publicly-financed components of the Lowell plan include: pedestrian amenities, mass transit, traffic and parking improvements, the rehabilitation of key public buildings, the conversion of historic mill buildings to elderly housing, and a museum. These improvements have induced the private sector to undertake new industrial commercial, cultural, and housing projects, many of them in recycled buildings.

Transportation: The Northern Middlesex transportation system must be viewed from two perspectives — as a metropolitan network in its own right, and as a commuter channel to Boston. Within the region, only one major highway project is at issue, a long-discussed Route 213 river crossing north and west of downtown Lowell. Several traffic and parking projects now underway in Lowell are important to the city's revitalization. Regional mass transit is just getting off the ground. A plan now under discussion would involve the regional transit authority, the city, and the state in the creation of a Lowell transportation terminal, potentially a key urban revitalization project at which the improved regional and commuter transportation services would intersect.

Environmental Issues: The Lowell Heritage State Park, built around the city's canal system and integrated into the downtown, was conceived within the city and is now a major state project. Congressional legislation has been filed to envelop the state park and the downtown area in a National Cultural Park.

Cleanup of the Merrimack River will soon be assisted by a massive program of regional sewage collection and treatment facilities, centered in Lowell. A second regional effort involves the participation of most Northern Middlesex communities in the Northeast Solid Waste Committee, a body centered in the neighboring Merrimack Valley district.

Northern Middlesex Area



"The most common technique employed by area towns that leads to a pattern of sprawl is large lot zoning. Traditional zoning such as this assumes that density is the best measure of the character of a community. . . . This, in fact, rarely happens. Once zoned for large lots, scattered residential development occurs, and before long the entire countryside is dotted with large lot development."

Northern Middlesex Regional Growth Policy Report

Source: Office of State Planning.

I. Highlights

Population projections for the Lowell Labor Market Area indicate that the area's population by July 1, 1979 should reach 228,403, which is an increase of 6.7 percent since 1970. The LMA's labor force participation rate should be 69.1 percent - 84.2 percent for men and 55.6 percent for women.

Nonagricultural wage and salary employment totaled 63,880 in March, 1978, an increase of 3,500 over March, 1977. Manufacturing employment increased by 1,600, nonmanufacturing employment grew by 1,900.

The unemployment rate in the Lowell LMA decreased from 11.1 in January 1977, to 6.2 in December 1977. While the rate rose seasonally in January 1978, by the following March the rate was back down to 6.2. In January 1977 the LMA's rate was 9 tenths of a percentage point higher than the Commonwealth's rate, and 2.8 percentage points higher than the national rate. In March 1978, the LMA's unemployment rate was the same as that for Massachusetts as a whole, which was estimated to be 4 tenths of a percentage point lower than the national rate.

During 1979 work will continue on the Lowell Heritage State Park in the city of Lowell, and work should begin on the National Historical Park.

II. Population and Labor Force Characteristics and Trends

The farther one gets from the decennium Federal census, the more difficult it becomes to accurately estimate an area's population. Trends in the rates of natural increase, and of in/out migration, can and do change, and the trends that were true in 1970, or even in 1975, are unlikely to be a fully accurate reflection of the years from 1976 to 1979. For this reason, the Table II estimate of population for July 1, 1979, is 14,000 lower than the projection on Table I for 1980. What we can be sure about is that the population of the LMA is higher than it was in either 1970 or 1975, and that it is still growing - although at nowhere near the rate of growth experienced in the late 1960's. Also, it's fairly certain that with the possible exception of Lowell, all the municipalities in the LMA are sharing in the growth. Lowell surprised many by gaining population between 1960 and 1970, when both the state and national trends were for central cities' population to go down. While some estimate that the city's population is now declining, it is still likely to be in excess of 90,000.

The labor force projections are based on the Lawrence/Berkley laboratory series, which show projections of national, state, and local area populations and labor forces. The original data estimated that there would be a labor force participation rate of 65.4 percent as of July 1, 1979, for a labor force of 103,344. However, the estimates may not fully take into account the growth in the Lowell LMA labor force, which is estimated as of March 1978 to be 6.8 percent larger than it was in March 1977. This growth in one year is not due to any spurt in population, although a large number of high school and college graduates are now entering the work force, but rather it is due to the economic upturn. Many people who could not find work during the recession and dropped out of the labor force, and others who were at that time discouraged from entering the labor force, are now being attracted onto the job market by the improved chances of finding work.

In order to reconcile this growth in the labor force with the Census Bureau's estimate that the population of Massachusetts has declined slightly in the past year, and is probably still going down, the December 1977 labor force estimate for Lowell was reduced by the same rate as Lawrence/Berkley estimates that the state's population will decline. While not using the Lawrence/Berkley labor force projections, I have used their population projections, and their age, sex and race ratios. On the whole, Table III is a fair reflection of the labor force makeup, although some of the labor force participation rates are probably too high. For example, arithmetically, the participation rate

for men 25-44 works out to be over ninety-nine percent, which is most unlikely, if not well nigh impossible. However, it should be pointed out that the Lawrence/Berkley projections showed a participation rate for men of those ages of over 94 percent. A partial explanation of these very high participation rates is that they include those in military service.

The growth in the labor force has introduced a tightness of labor supply to the Lowell LMA scene which in the past few years has only been associated with high skill positions. Essentially, this is a healthy phenomena for the workers of the area, because a tight labor market usually means fewer lay-offs and higher wages. One unfortunate occurrence associated with a tight labor market is that some firms might be discouraged from settling in the LMA, or expanding there, if they believe they won't be able to find the kinds of workers they need in sufficient numbers. To date, however, Lowell seems to still be attracting firms, and the new firms seem able to attract their needed workers. Much of the above mentioned growth in the LMA's labor force is directly related to this growth in jobs available in the area. Lowell had a large group of "discouraged workers" due to the recession. Discouraged workers are those who have dropped out of the labor force, usually because of the poor employment prospects. These individuals are now rejoining the labor force. How much more of this form of "slack" can be drawn into the labor force from the area's work age population is difficult to gauge, but it wouldn't appear that there's a great deal left.

That does not mean, however, that new or expanding firms only have the area's unemployed to draw on for their needs. Approximately a third of the LMA's residents who are employed work outside of the LMA. Many of these workers could be attracted to work within the Lowell area if they were given a tempting enough offer.

Table I
Lowell Labor Market Area
Population Projections

	1975	1980	1985	1990
Billerica	35,831	40,204	43,420	46,459
Chelmsford	31,749	33,707	37,098	39,509
Dracut	20,287	23,542	26,367	29,531
Dunstable	1,534	1,831	2,197	2,570
Lowell	91,177	95,000	98,000	100,000
Tewksbury	24,049	27,266	30,047	33,051
Tyngsborough	4,870	5,886	7,357	8,828
Westford	<u>12,951</u>	<u>14,926</u>	<u>18,657</u>	<u>22,854</u>
Total	<u>222,448</u>	<u>242,362</u>	<u>263,143</u>	<u>282,802</u>

The population projections were made available by
the Northern Middlesex Area Commission.

Table II

Lowell Population Composition
Projections for July 1, 1979

Ages	White		Black		All Other		All Other		Combined Total	
	Males	Females	Total	Males	Females	Total	Males	Females		
0-4	9,070	8,630	17,700	85	83	168	55	53	108	17,976
5-9	11,287	10,887	22,174	62	119	181	28	48	76	22,431
10-14	12,805	12,082	24,887	116	98	214	13	6	19	25,120
15-19	12,106	12,037	24,143	45	60	105	17	27	44	24,292
20-24	10,095	9,849	19,944	91	62	153	86	27	113	20,210
25-29	6,969	8,382	15,351	56	70	126	33	65	98	15,575
30-34	7,063	7,554	14,617	6	57	63	21	32	53	14,733
35-39	6,279	6,559	12,838	51	31	82	17	21	38	12,958
40-44	6,515	6,335	12,850	16	35	51	25	33	58	12,959
45-49	6,116	6,359	12,475	24	17	41	9	19	28	12,544
50-54	5,870	5,934	11,804	29	7	36	12	2	14	11,854
55-59	4,972	5,639	10,611	20	22	42	8	13	21	10,674
60-64	3,810	4,171	7,981	13	11	24	14	15	29	8,034
65-69	2,657	3,633	6,290	6	21	27	8	9	17	6,334
70-74	1,769	2,926	4,695	1	4	5	8	13	21	4,721
75+	2,668	5,257	7,925	12	10	22	19	22	41	7,988
TOTAL	110,051	116,234	226,285	632	708	1,340	373	405	778	228,403

Source: Lawrence/Berkley Projections

Table III
POPULATION AND LABOR FORCE COMPOSITION PROJECTIONS ***
FISCAL YEAR 1979
Lowell Labor Market Area

	Population	Labor Force	Employ- ment	Unemploy- ment	Unemploy- ment Rate	LFP* Rate
TOTAL	228,403	109,194	100,677	8,517	7.8	69.1
White Male	110,051	62,677	57,726	4,951	7.9	84.2
0-15	35,582	-	-	-	-	-
16-17	4,843	3,494	-	-	-	70.7
18-19	4,843	3,603	-	-	-	74.4
20-24	10,095	8,954	-	-	-	88.7
25-34	14,030	13,977	-	-	-	99.6
35-44	12,795	12,666	-	-	-	99.0
45-64	20,768	18,454	-	-	-	88.9
65 +	7,095	1,529	-	-	-	21.6
White Female	116,234	45,752	42,229	3,523	7.7	55.6
0-15	34,007	-	-	-	-	-
16-17	4,815	3,822	-	-	-	79.4
18-19	4,815	4,040	-	-	-	83.9
20-24	9,848	7,316	-	-	-	74.3
25-34	15,936	8,189	-	-	-	51.4
35-44	12,894	8,080	-	-	-	62.7
45-64	22,103	13,322	-	-	-	60.3
65 +	11,816	983	-	-	-	8.3
Nonwhite Male	1,005	419	381	39	9.2	66.0
0-15	369	-	-	-	-	-
16-17	25	-	-	-	-	-
18-19	25	-	-	-	-	-
20-24	177	-	-	-	-	-
25-34	117	-	-	-	-	-
35-44	109	-	-	-	-	-
45-64	129	-	-	-	-	-
65 +	54	-	-	-	-	-
Nonwhite Female	1,113	346	INA*	INA*	INA*	50.4
0-15	426	-	-	-	-	-
16-17	35	-	-	-	-	-
18-19	35	-	-	-	-	-
20-24	89	-	-	-	-	-
25-34	223	-	-	-	-	-
35-44	120	-	-	-	-	-
45-64	106	-	-	-	-	-
65 +	79	-	-	-	-	-

* Labor Force Participation

** Figures are too small to make adequate projections

*** For methodology see narrative

III. Employments Developments by Industry

Nonagricultural wage and salary employment was 850 positions lower in March 1978 than it was in December 1977, a seasonal decline. All the same, employment in March was 5.8 percent higher than it was in March 1977, and 3.2 percent higher than it was in 1974, before the brunt of the recession was felt. While these increases, especially the rise in jobs to above pre-recession levels, are encouraging, they must be taken with a grain of salt. In 1977 unemployment was still very high, over 10 percent in March of that year. So, a year to year comparison, while showing progress, is a comparison with an area economy which was just rising from a very depressed state. The employment situation in 1974 was much better than it became from 1975 through the first half of 1977, so the 3.2 percent growth in area jobs since then is a real gain. However, since the LMA's population contains more work age individuals today than it did in 1974, and would therefore need more jobs just to maintain employment at the same relative level, the gain is not as substantial as it might at first seem. It does appear, though, that the area is well over the worst of the recession. While the area is not having a "boom" by sunbelt standards and is unlikely to, it seems to be in a period of sustained growth. During 1978, we should see the Lowell LMA nonagricultural wage and salary employment rise above the 65,000 mark.

Durable goods manufacturing industries have been responsible for most of the growth, adding as estimated 2,000 workers over the last 18 months. There is more expansion to be expected in these industries through 1978, much of it already announced.

Most of the durable goods industries haven't shown startling changes either up or down in the last eighteen months. The exceptions have been electrical and nonelectrical machinery, and transportation equipment.

The last year has seen major employment increases in industry 35, nonelectrical machinery, largely due to expansion by Wang Laboratories Inc., which is headquartered in Lowell. With the purchase of the former Parkwood Laminates building announced in February 1978, coupled with expansion at other sites, Wang in one year will have more than doubled its industrial square footage in and around Lowell. Wang owns or leases nearly a million square feet of space in the LMA. Dr. An Wang has said that his company will hire a "few hundred" workers to be employed at the newly purchased site, and another expansion could be expected in a year. While there can be no guaranty that such an expansion will be within the LMA, the company has shown that it likes the area.

Digital Equipment Company will move into its first area facility this year. The Merrimack Valley Mall in Tewksbury was vacated last summer, and will be utilized by Digital's engineering and engineering services department. The company will move in 200 employees from its crowded facilities in Maynard, many of them Lowell area residents, and expects to add "upwards of 300 more" over the next few years to be hired from within the LMA. Since the announcement about the Tewksbury site, Digital's president has said that Digital had also been looking at a mill in Lowell for possible expansion, but because refuse from the mill ran directly into one of the city's canals, the mill proved to be unsuitable. Hopefully, Digital will find the Lowell area as good a place to operate in as Wang has, and will consider it carefully for any future expansions.

It's rather indicative of the industrial changes that have occurred in the LMA during the last decade that when a local apparel firm was forced out of business in November 1977 due to financing problems, within a month it was announced that an electronics firm had bought the apparel company's site. As a result, the electronics firm, Consolidated Design, was able to triple its available floor space. It is not yet certain how many new workers will be taken on as the firm expands its operations.

The Massachusetts Industrial Mortgage Insurance Agency, created in 1977, selected a Lowell firm to receive its first economic assistance for expansion. The company, Merrimack Magnetics, will construct a building in the Hale-Howard urban renewal area, moving 200 of its employees there, and 50 additional jobs will be created. State money also allowed the Lower Belvedere Community Development Corporation to buy stock in Telemetry Systems Engineering, Inc., providing working capital which will allow the company to expand into Lowell. In turn, Telemetry Systems will hire 80 percent of its new workforce at the site from Lowell. This could mean perhaps 300 new jobs in the Lower Belvedere section of the city over the next few years.

Although there hasn't been tremendous growth during the last 18 months in the nondurable goods sector as a whole, there has and will be considerable activity. The food processing industry has shown a decline in employment over recent years, largely due to automation. However, in August 1977 Prince Macaroni announced a multimillion dollar, 300,000 square foot expansion for their Lowell plant. When completed, this expansion will mean an initial 20 percent jump in employment, with more to follow. Also, production will be increased to such a level that the city will have the largest pasta manufacturing center in the country.

Apparel and textiles are two industries which have declined greatly in the area since the 1920's. Just this past year, another apparel firm was forced to close, it had employed 200 workers. In contrast, the textile firm of Joan Fabrics has tripled its output in the last 20 years. In July 1977 the company announced it expected to take on 100 additional employees. Joan Fabrics operates three Lowell plants already, and the city has a good chance to be the site of the company's further growth. The firm needs 100-200,000 square feet of additional manufacturing space, and would prefer to expand either in Lowell or in Fall River.

Industry 28, chemicals and allied products, should see major future growth due to expansion announced by New England Nuclear. An addition to the firm's nuclear medicine and technology center in North Billerica is already underway, and company president, Marvin Stolberg, said in August 1977 that their employment in the area should increase by 1,500 over the next ten years.

Through much of 1977, many construction workers had trouble finding work, particularly painters and plumbers. The situation forced many area residents to go out of state for work, and in the case of at least one group, up to Canada. 1978 bodes well to be a much better year. The towns of Tyngsboro and Dracut have proposals for major residential housing subdivisions before their planning boards. The Dracut proposal could mean the building of as many as 300 new homes, although not all this year. In 1977, Billerica saw quite a bit of industrial construction, and 1978 could give the town a record year for industrial expansion. This year Billerica will also see the building of a new library and \$2 million worth of low and moderate income housing. Construction of the new Lahey Clinic in Burlington will provide jobs for many area residents.

While Lowell should not see many single family homes built this year, Section 8 money awarded last year for renovation of office and mill space into apartments will provide considerable employment. Also, 1978 should see the finishing of the city's \$1 million downtown improvements in the Palmer, Middle and Shattuck Streets area. Renovation of buildings in the same area by the private sector will continue, work on many Middle Street structures has already been completed. Work at the new water and sewage plants continues, and work at the High School should get underway this year.

The National & Heritage Parks in Lowell should stimulate a great deal of construction and renovation activity. The bills for the parks provide funds for renovation of many of the city's old buildings, and her canals. The investment by the public sector, the National Cultural Park, the Heritage State Park, the city's improvements, has already led many in the

private sector to renovate their properties, as was stated above. This private investment should continue to rise, partly as a ripple effect from the public sector investment, but increasingly as a movement with its own momentum as Lowell becomes, and is seen to become, a more attractive place in which to live and do business.

Wholesale and retail trade is highly effected by seasonal factors, the greatest being the taking on of people for the Christmas season, and then letting them go in January. Because of construction downtown, many shoppers may avoid the area until the work there is more complete, and especially until the new parking facilities are ready. Therefore, there could be a small drop in the LMA's wholesale/retail trade employment in the near future, as area residents turn to stores in New Hampshire and along Rt. 128. The long term prospects for employment in this sector are, however, very good. Especially once the National Historical and Heritage State Parks are in operation, hundreds of thousands of people who would not have normally visited the area will arrive, which should lead to an increase in many area businesses sales volume. Also, once the cosmetic changes are finished downtown, more area residents will be attracted there to shop and to patronize restaurants.

The services industries should also see major increases in employment within the coming year, joining in a statewide trend. The funding of the two Parks will also have a great impact on services, although not as great as the effect on wholesale/retail trade.

Government employment has remained remarkably constant over the last eighteen months, and shouldn't increase greatly for the rest of the year. Long term trends are more difficult to forecast. The Carter Administration has stated that it would like to see a cutback in Federal employment. Should the Administration start this rollback, the number of Federal workers at jobs within the LMA, at present between 550 and 600, will still rise. The National Park will of course inevitably bring an increase. Added to this is the proposed move into the LMA of some Federal workers from another location.

State and local employment has also held fairly steady during the last year-and-a-half. For the long run, unless there is a significant immigration of population with young children, the school age population in the area will continue to go down. This will mean a decline in the need for teachers, and other school related government workers.

Table IV

Employment in Various Industrial Groups*
October 1977 - March 1978

	October 1977	November 1977	December 1977	January 1978	February 1978	March 1978
Manufacturing						
Durable Goods	22,384	22,637	22,619	22,596	22,735	22,855
Lumber, Wood Products Exc. Furniture	11,240	11,327	11,427	11,579	11,701	11,662
Furniture and Fixtures	110	110	110	110	110	110
Stone, Clay, Glass & Concrete Products	189	192	195	195	195	202
Primary Metal Industries	349	360	354	362	372	375
Fabricated Metal Products	535	528	518	529	538	544
Machinery, Except Electrical	580	589	587	610	571	562
Electrical Machinery, Equip. & Supplies	4,549	4,610	4,700	4,753	4,881	4,754
Transportation Equipment	2,062	2,074	2,096	2,139	2,125	2,179
Instruments, Photo and Optical Goods	2,228	2,224	2,227	2,240	2,268	2,297
	638	640	640	641	641	639
Nondurable Goods	11,144	11,310	11,192	11,017	11,034	11,193
Food and Kindred Products	982	977	983	977	977	977
Textile Mill Products	3,084	3,216	3,086	3,049	3,001	2,972
Apparel	1,042	1,092	1,078	1,059	1,069	1,104
Paper and Allied	902	888	870	829	817	850
Printing, Publishing & Allied Industries	2,264	2,249	2,263	2,213	2,228	2,354
Chemical & Petroleum Products	512	512	517	522	521	514
Rubber & Plastic Products	938	935	958	951	953	956
Leather and Leather Products	1,405	1,426	1,422	1,402	1,453	1,451
Miscellaneous Manufacturing	15	15	15	15	15	15
Nonmanufacturing (Private)	31,608	31,608	31,722	30,221	30,214	30,544
Contract Construction	2,494	2,381	2,316	1,885	1,760	1,927
Transportation and Public Utilities	3,144	3,187	3,141	3,134	3,107	3,111
Wholesale & Retail Trade	13,969	14,050	14,356	13,370	13,475	13,526
Finance, Insurance, & Real Estate	1,875	1,877	1,860	1,858	1,868	1,879
Services, Miscellaneous & Mining	10,126	10,113	10,049	9,974	10,004	10,101
Government Total	10,355	10,379	10,405	10,378	10,442	10,481
Total	64,347	64,624	64,746	63,195	63,391	63,880

* Source - 790 Report

Table IVa

Employment in Various Industrial Groups*
October 1976 - September 1977

	October 1976	November 1976	December 1976	January 1977	February 1977	March 1977	April 1977	May 1977	June 1977	July 1977	August 1977	September 1977
Manufacturing												
Durable Goods	20,442	20,410	20,574	20,891	21,214	21,275	21,802	21,917	22,395	21,340	21,738	21,933
Lumber, Wood Products Exc. Furniture	9,690	9,773	10,069	10,100	10,244	10,338	10,497	10,547	10,782	10,440	10,456	10,551
Furniture and Fixtures	101	108	108	117	134	129	137	139	137	146	136	165
Stone, Clay, Glass, & Concrete Prod.	152	197	194	179	177	185	188	185	187	173	179	175
Primary Metal Industries	424	412	426	323	316	282	316	304	357	408	409	413
Fabricated Metal Products	524	518	514	518	504	498	490	507	518	532	524	525
Machinery, Except Electrical	593	573	572	556	553	549	604	606	619	644	662	665
Electrical Machinery, Equipment and Supplies	3,636	3,656	3,780	4,000	4,045	4,133	4,243	4,226	4,236	3,893	3,850	3,846
Transportation Equipment	1,687	1,743	1,898	1,831	1,928	1,933	1,890	1,893	1,955	1,869	1,918	1,945
Instruments, Photo and Optical Goods	1,963	1,976	1,997	1,979	1,981	2,018	2,021	2,050	2,114	2,101	2,107	2,172
	610	590	580	597	606	608	608	637	659	674	671	645
Nondurable Goods												
Food and Kindred Products	10,752	10,637	10,505	10,791	10,970	10,937	11,305	11,370	11,613	10,900	11,282	11,382
Textile Mill Products	1,150	1,131	1,034	1,021	1,175	1,135	1,130	1,087	1,152	1,027	1,157	1,132
Apparel	2,941	2,864	2,810	2,821	2,904	2,899	2,992	3,025	3,101	2,785	2,873	2,951
Paper and Allied	1,056	1,082	1,077	1,048	1,039	1,058	1,067	1,125	1,137	908	997	1,020
Printing, Publishing & Allied	688	675	798	1,025	1,032	1,067	1,052	1,070	1,089	1,061	1,081	1,146
Industries	2,335	2,304	2,355	2,291	2,287	2,275	2,378	2,411	2,427	2,435	2,441	2,431
Chemical and Petroleum Products	428	440	437	427	417	421	433	457	472	454	467	464
Rubber and Plastic Products	1,056	1,086	944	902	851	827	912	828	834	869	870	871
Leather and Leather Products	1,080	1,037	1,032	1,241	1,245	1,236	1,322	1,350	1,390	1,348	1,304	1,355
Miscellaneous Manufacturing	18	18	18	15	20	19	19	17	11	13	12	12
Nonmanufacturing (Private)												
Contract Construction	30,282	30,228	30,338	28,223	28,184	28,642	29,857	30,364	30,681	30,408	30,556	31,268
Transportation and Public Utilities	2,429	2,266	2,033	1,612	1,574	1,727	2,136	2,490	2,705	2,766	2,854	2,898
Wholesale and Retail Trade	2,478	2,488	2,585	2,406	2,440	2,501	2,456	2,441	2,469	2,344	2,391	2,546
Finance, Insurance, & Real Estate	13,802	13,952	14,234	13,573	13,507	13,703	14,045	14,156	14,217	14,029	14,065	14,534
Services, Miscellaneous and Mining	1,897	1,908	1,944	2,024	2,011	2,019	2,020	2,037	2,048	2,061	2,075	2,071
Government Total	9,676	9,614	9,542	8,608	8,653	8,692	9,200	9,240	9,242	9,208	9,171	9,219
Total	<u>10,262</u>	<u>10,332</u>	<u>10,380</u>	<u>10,219</u>	<u>10,490</u>	<u>10,452</u>	<u>10,457</u>	<u>10,403</u>	<u>10,479</u>	<u>10,313</u>	<u>10,264</u>	<u>10,135</u>
	<u>60,986</u>	<u>60,970</u>	<u>61,292</u>	<u>59,333</u>	<u>59,888</u>	<u>60,369</u>	<u>62,116</u>	<u>62,684</u>	<u>63,555</u>	<u>62,061</u>	<u>62,558</u>	<u>63,336</u>

Source: ES 202 for all Nongovernment Employment, Industries Chemical & Petroleum Products and Machinery, except electrical being adjusted for a coding error. Government employment is the 790 estimate.

IV. Hours and Earnings/Labor Turnover

For March of 1978, the average weekly earnings of a manufacturing production worker in the Lowell LMA were \$189.82. This was 85.9 percent of the \$221 average weekly wage paid to production workers statewide. The Lowell worker was on the job 1.4 hours less than his statewide counterpart, and he earned 60 cents less an hour. Production workers in the durable goods industries in the LMA worked 2.3 hours less than, and earned only 77.6 percent as much as durable goods industry production workers throughout the Commonwealth. Workers in nondurable goods industries worked six-tenth of an hour longer than the average nondurable goods production worker in Massachusetts, but earned 3.3 percent less.

In some ways, March 1978 was an atypical month. During March, nondurable goods production workers in the LMA had higher earnings on average than did durable goods production workers, while more often the reverse is true. This was largely due to nondurable goods workers averaging nearly two hours more on the job during the month than workers from durable goods industries. Nondurable goods workers usually average more hours, but rarely enough offset the somewhat higher wages paid their durable goods counterparts.

Over the year March 1977 to March 1978, production workers in Lowell and throughout the state have shown substantial increases in weekly earnings. Statewide, durable goods production workers showed slightly greater gains than nondurable goods production workers. In the LMA the reverse was true mostly due to the greater increase of hours worked by nondurable industry workers.

Table VII gives payroll and average employment information from the E.S. 202 report for calendar years 1975 and 1976. Wholesale trade, Transportation, Communications, & Utilities, Manufacturing, and Mining had the highest average wages. All these industries, with the exception of Manufacturing, are not large employers in the LMA. The lowest wages were paid in Agriculture, due to seasonality; Retail Trade, largely because the figures include part-time workers, and Services.

Labor Turnover, shown on Table VIII, shows some encouraging signs. There have been very few layoffs, and the low level of recalls, as opposed to new hires, means that the large pool of workers laid off in the past several years have been recalled, or have found other employment. Accession rates are generally greater than separation rates, with most industries having

Table V

Lowell Area Manufacturing
Hours and Earnings of Production Workers

	January 1978			February 1978			March 1978		
	Average Hours	Average Hourly Earnings	Weekly Earnings	Average Hours	Average Hourly Earnings	Weekly Earnings	Average Hours	Average Hourly Earnings	Weekly Earnings
Manufacturing	39.5	\$4.67	\$184.47	35.8	\$4.64	\$166.11	39.3	\$4.83	\$189.82
Durable Goods	38.3	4.85	185.76	33.5	4.76	159.46	38.4	4.86	186.62
Primary Metals	40.7	6.38	259.67	50.5	7.15	361.08	40.7	6.32	257.22
Fabricated Metals	39.2	4.45	174.44	23.9	4.62	110.42	39.0	4.51	175.89
Machinery	39.0	4.44	173.16	41.5	4.53	188.00	38.8	4.46	173.05
Electrical Machinery	34.1	3.19	108.78	36.1	3.25	117.33	34.1	3.22	109.80
Transportation Equipment	43.6	5.70	248.52	10.8	5.91	63.83	41.9	5.72	239.67
Other	35.8	6.72	240.58	36.6	6.42	234.97	39.1	7.01	274.09
Nondurable Goods	40.3	4.54	182.96	37.6	4.56	171.46	40.2	4.80	192.96
Food	42.7	4.93	210.51	38.6	4.82	186.05	43.2	4.75	205.20
Textiles	41.8	4.24	177.23	40.8	4.24	172.99	40.6	4.31	174.99
Apparel	36.5	4.07	148.56	32.7	4.06	132.76	34.4	3.89	133.82
Paper	40.8	4.61	188.09	41.3	4.83	199.48	40.8	4.83	197.06
Printing	42.8	6.79	290.61	32.9	7.23	237.87	43.5	7.35	319.73
Other	37.7	3.11	117.25	38.3	3.40	130.22	38.7	3.58	138.55
Massachusetts Manufacturing	40.2	5.36	215.47	37.0	5.43	200.91	40.7	5.43	221.00
Durable Goods	41.4	5.71	236.39	37.0	5.83	215.71	41.7	4.77	240.61
Nondurable Goods	38.8	4.95	192.06	36.9	5.00	184.50	39.6	5.04	199.58

healthy rates of new hires. The rate of quits could be looked upon as a gauge of worker dissatisfaction with their employment, and it undoubtedly is to a certain extent. The level of quits also shows, however, the confidence that the LMA's production workers have in the strength of the area's job market; that they feel they will be able to find alternative employment.

Table VI

Lowell Area Hours and Earnings for Total Manufacturing
and Nondurable Goods Manufacturing 1968 - 1977

	Total Manufacturing			Nondurable Goods		
	Average Weekly Earnings	Average Weekly Hours	Average Hourly Wage	Average Weekly Earnings	Average Weekly Hours	Average Hourly Wage
<u>1977</u>						
January	\$161.73	36.1	\$4.48	\$161.92	36.8	\$4.40
February	174.44	39.2	4.45	172.92	39.3	4.40
March	170.37	38.2	4.46	167.70	38.2	4.39
April	170.82	38.3	4.46	170.77	38.9	4.39
May	170.24	38.0	4.48	169.89	38.7	4.39
June	177.70	38.8	4.58	175.82	39.6	4.44
July	175.26	38.1	4.60	172.66	38.8	4.45
August	178.09	38.8	4.59	176.57	39.5	4.47
September	182.56	39.6	4.61	178.89	40.2	4.45
October	181.03	39.1	4.63	176.57	39.5	4.47
November	182.35	39.3	4.64	177.86	39.7	4.48
December	185.54	39.9	4.65	183.47	40.5	4.53
<u>Annual Average</u>						
1977	175.63	38.6	4.55	173.60	39.1	4.44
1976	167.96	38.7	4.34	164.16	38.9	4.22
1975	159.01	38.5	4.13	153.25	38.7	3.96
1974	147.83	38.7	3.82	148.21	38.9	3.81
1973	140.26	39.4	3.56	139.55	39.2	3.56
1972	130.75	39.5	3.31	130.48	39.3	3.32
1971	116.96	38.6	3.03	118.97	38.5	3.09
1970	111.65	38.5	2.90	112.60	38.3	2.94
1969	104.76	38.8	2.70	104.88	38.7	2.71
1968	99.04	39.3	2.52	95.87	38.5	2.49

Table VII

Lowell Labor Market Area
Private Employment and Wages*
Calendar Years 1976 and 1975

SIC Code	1976				1975			
	Numbers of Firms	Payroll	Average Wage	Average Monthly Employment	Number of Firms	Payroll	Average Wage	Average Monthly Employment
01-09 Agriculture	28	\$ 428,040	\$ 5,418	79	27	\$ 416,184	\$ 5,476	76
10-14 Mining	5	755,457	11,110	68	6	746,787	9,699	77
15-17 Construction	501	23,129,523	10,561	2,190	497	21,996,267	10,596	2,076
19-39 Manufacturing	312	233,395,608	11,289	20,674	322	215,615,583	10,745	20,066
40-49 Transportation, Comm. & Utilities	118	27,970,744	11,297	2,476	111	24,762,367	10,322	2,399
50-51 Wholesale Trade	154	22,195,022	11,614	1,911	158	20,413,680	11,443	1,784
52-59 Retail Trade	927	69,955,739	6,055	11,554	903	65,439,950	5,831	11,241
60-67 Finance, Insurance, Real Estate	158	18,095,121	9,646	1,876	171	17,180,710	9,134	1,881
70-89 Services	799	71,857,058	8,063	8,912	777	56,742,092	7,029	8,073
All Subject Employment	3,002	467,782,312	9,404	49,741	2,972	423,417,620	8,882	47,673

* Source: ES202, for firms covered by the Commonwealth's Employment Security Law

Table VIII

Lowell Labor Market Area
Labor Turnover by Industry

	Employment	Accession Rates			Separation Rates		
		Total	New Hire	Recalls	Total	Quit	Layoff
<u>January</u>							
Manufacturing - Total	22,700	5.3	4.4	0.8	4.9	3.1	1.2
Durable Goods - Total	11,500	3.8	3.7	0.1	2.3	1.9	0.0
Nondurable Goods - Total	11,200	6.8	5.1	1.5	7.5	4.3	2.5
Food & Kindred	1,000	2.0	2.0	0.0	1.3	0.7	0.0
Textile Mill	3,200	7.3	6.6	0.4	6.4	4.0	0.8
Apparel	1,100	10.7	1.2	9.5	7.3	2.6	4.5
Leather	1,400	17.4	16.2	1.3	18.9	14.8	2.6
<u>February</u>							
Manufacturing - Total	22,700	3.3	2.7	0.5	3.6	2.0	0.7
Durable Goods	11,500	2.2	2.0	-	1.6	1.0	-
Nondurable Goods - Total	11,200	4.5	3.3	0.9	5.6	3.1	1.4
Food & Kindred	1,000	1.2	1.2	0.0	1.7	0.7	0.5
Textile Mill	3,200	4.8	4.1	0.2	10.2	4.1	2.9
Apparel	1,100	10.4	4.5	5.8	2.5	2.5	0.0
Leather	1,400	12.1	11.5	0.6	11.0	10.7	0.0
<u>March</u>							
Manufacturing - Total	23,000	4.9	4.5	0.2	3.4	2.6	0.2
Durable Goods - Total	11,700	3.9	3.8	(0.04)	1.8	1.3	(0.01)
Nondurable Goods - Total	11,300	5.8	5.2	0.5	4.9	4.0	0.3
Food & Kindred	1,000	3.3	3.3	0.0	2.8	1.4	0.6
Textile Mill	3,000	5.9	5.4	0.5	3.2	2.0	0.3
Apparel	1,100	8.6	7.3	0.3	5.5	1.8	1.8
Leather	1,500	11.3	10.5	0.7	10.3	10.2	0.0

V. Recent Unemployment Trends and Outlook

The revised unemployment figures on Table IX show that the Lowell LMA, the Commonwealth, and the nation have all had steady annual improvements in their unemployment levels since the height of the recession during 1975. Comparing the Lowell annual averages for 1975 to the quarterly averages for January - March 1978, our estimates show an increase in employment of 12,300 (13.5 percent), and a decrease in unemployment from 12,400 to 7,950, a drop of 4,473 (36 percent). The Lowell LMA has therefore had a greater relative improvement in its unemployment rate than either the Commonwealth or the nation as a whole. It should be remembered, however, that Lowell had the worst unemployment of the three in 1975, and despite its improvement it still usually has the highest rate. The recent exceptions to this were the months of November and December 1977, when Lowell had the same rate as Massachusetts, and March of 1978, when it's estimated that the Lowell and Massachusetts rate was lower than the national. Under new methodology, the Massachusetts unemployment rate is taken directly from the Current Population Survey (CPS), and the rate for the state as a whole has great influence on the estimates of the individual Labor Market Areas. Also, one month's rate shouldn't be taken as completely definitive, three or four months rates need to be examined to know if there is some kind of trend. It will be interesting in the upcoming months to see if the state's rate remains below the national one. It is more likely, however, that the state's rate will be somewhat above the country's, and Lowell's unemployment will be at, or a little above, the state level.

The upcoming months, the second quarter of 1978, look to be the best that the Lowell LMA has had for years, at least from an unemployment perspective. Both the unemployment rate, and the number of unemployed, should continue to decline through June. Since these are already at low levels, low when one looks back over the past five years, Lowell may well have unemployment estimated to be lower than anything experienced since the mid-1960's. For the second half of the year, we will likely see a stabilization of the area's unemployment rate. It could continue to decline, but it will certainly not go down by anything near the 4.9 percentage points the rate dropped between January and December 1977.

Frankly, when trying to forecast for 1979, there are nearly as many opinions (one could perhaps here substitute the words estimates or guesses) as there are economists. The rate projected on Table III can best be used as a "worst case" estimate, as some economists do foresee problems in 1979, although nothing like the recent recession. Should the national economy stagnate,

the Northeast would be more adversely effected than many other parts of the nation, and consequently experience higher unemployment levels than the country as a whole. The comparative unemployment levels on Table III given for the three subgroups should prove true regardless of the actual unemployment rate. That is, White women should have, as they traditionally do, a lower unemployment rate than White males, and both will have lower rates than Nonwhite males in the Lowell Labor Area.

Table IX

Lowell LMA, Massachusetts & U.S. Unemployment Rates
1974 Through March 1978

	Total Employment	Total Unemployment	Labor Force	Unemployment Rate		
				Lowell LMA	Mass.	U.S.
1974	91,632	8,326	99,958	8.3	7.2	5.6
1975	91,293	12,425	103,718	12.0	11.2	8.5
1976	95,917	10,918	106,835	10.2	9.5	7.7
1977	98,958	9,136	108,094	8.5	8.1	7.0
<u>1977</u>						
January	94,734	11,844	106,578	11.1	10.2	8.3
February	95,298	10,749	106,047	10.1	9.7	8.5
March	95,093	9,510	104,603	9.1	8.7	7.9
April	96,343	9,551	105,894	9.0	9.0	6.9
May	99,678	7,549	107,227	7.0	6.6	6.4
June	100,710	9,016	109,726	8.2	7.7	7.5
July	100,472	8,806	109,278	8.1	7.8	7.0
August	100,066	10,728	110,794	9.7	9.1	6.8
September	97,714	10,247	107,961	9.5	9.1	6.6
October	101,838	7,249	109,087	6.6	6.6	6.3
November	102,057	7,563	109,620	6.9	6.9	6.4
December	103,493	6,815	110,308	6.2	5.9	6.0
<u>1978</u>						
January	102,398	8,962	111,360	8.0	7.5	7.0
February	103,615	8,004	111,619	7.2	7.1	6.9
March	104,839	6,889	111,728	6.2	6.2	6.6
Quarterly Average	103,617	7,952	111,569	7.1	7.0	INA

Table X

City of Lowell
Labor Force Data*
1974 Through March 1978

	Total Employment	Total Unemployment	Labor Force	Unemployment Rate
1974	42,795	4,135	46,930	8.8
1975	42,637	6,170	48,807	12.6
1976	44,796	5,422	50,218	10.8
1977	46,216	4,537	50,753	8.9
<u>1977</u>				
January	44,244	5,882	50,126	11.7
February	44,507	5,338	49,845	10.7
March	44,411	4,723	49,134	9.6
April	44,995	4,743	49,738	9.5
May	46,553	3,749	50,302	7.5
June	47,035	4,477	51,512	8.7
July	46,923	4,373	51,296	8.5
August	46,734	5,328	52,062	10.2
September	45,635	5,089	50,724	10.0
October	47,561	3,600	51,161	7.0
November	47,664	3,756	51,420	7.3
December	48,334	3,384	51,718	6.5
<u>1978</u>				
January	47,823	4,451	52,274	8.5
February	48,391	3,975	52,366	7.6
March	48,963	3,421	52,384	6.5
Quarterly Average	48,392	3,949	52,341	7.5

* Disaggregated from the LMA Data by the Census Share Method.

Table XI
 Claimants Paid Regular U.I. Benefits
 by Residence in the Lowell LMA
 January Through March 1978 Survey Weeks*

	January 1978			February 1978			March 1978		
	Collecting at Lowell Local Office		Total	Collecting at Lowell Local Office		Total	Collecting at Lowell Local Office		Total
	Total	Percent	Total	Total	Percent	Total	Total	Percent	Total
Lowell 241	1,410	99.4	1,402	1,055	99.5	1,377	1,371	99.6	
BillERICA 242	370	72.4	268	291	72.9	391	274	70.1	
Chelmsford 243	287	98.3	282	195	99.5	269	267	99.3	
Dracut 244	362	95.9	347	268	95.9	366	350	95.6	
Dunstable 245	18	77.8	14	13	76.9	18	17	94.4	
Tewsbury 247	246	81.3	200	185	72.4	253	193	76.3	
Tyngsborough 248	61	96.7	59	68	98.5	74	74	100.0	
Westford 249	110	94.5	104	92	93.5	118	112	94.9	
Area Total	2,864	93.4	2,676	2,167	92.8	2,866	2,658	92.7	

* The Survey Week of each month is that week which contains the 12th day of the month.

VI. Data on the Insured Unemployed

The Characteristics of the Insured Unemployed which are contained in Tables 12 through 15 were obtained from a sample survey of the active file of claimants filing for a particular week of unemployment compensation benefits under state and federal laws and programs. The sample used varied from 15 to 50 percent of those who filed unemployment insurance continued claims, exclusive of out-of-state residents filing in Massachusetts.

The data are based solely on local office unemployment insurance records. Where the subtotals do not add to 100 percent, the reason is that data elements were missing when primary records were surveyed. The method for inflation of the data utilizes the information on the number of weeks claimed in each office for the corresponding week (s). It must be stated, however, that these figures do not necessarily reflect the same characteristic of those unemployed who are not insured under the Massachusetts Employment Security Law. These uninsured unemployed are estimated to be about 30 percent of the total unemployed.

The sample shows that nearly three out of five claimants were men. Of these men, 77.9 percent were between the ages of 25 and 54, virtually the same as the 78.3 percent of the women claimants between these two ages. The gap in earnings between the sexes is shown by noticing that while 26.1 percent of the men last worked at jobs that paid under \$150/wk, and 49.7 percent last earned under \$200/wk, the percents of females last working in jobs that paid at the same two levels were 65.5 percent for under \$150/wk, and 88.5 percent for under \$200/wk; This is not so much because women earn less for doing the same work, but rather that they work in lower paying positions to start with. Some rather high paying industries, such as construction, employ men almost exclusively for their craft positions, while women occupy most of the jobs in some of the lower paying assembly industries.

Of those collecting under regular U.I. programs, 86.4 percent are unemployed because they were laid off, only 11.2 percent were discharged or quit. The sample showed only 12 Spanish Surnamed claimants, and only 3 who were Nonwhite.

A total of 34.3 percent of the sample's claimants last worked in Manufacturing. While this is slightly less than manufacturing's proportion of the area's employment, the claimants, mostly Lowell LMA residents, include many who work outside of the area. Therefore, industry attachments of the insured unemployed aren't directly comparable to the area's work force levels, because industry attachments for area residents who work outside the area are not necessarily the same as the relative job levels of industries in the Lowell LMA.

DEFINITION OF TERMS

PROGRAMS

REGULAR: Claims filed under

1. The Massachusetts Employment Security Law, Chapter 151A of the General Laws of Massachusetts.
2. Unemployment Compensation for Federal Employees (UCFE) Chapter 85 Title V of U.S. Code.
3. Unemployment Compensation for Veterans (UCX) Chapter 85 Title V of the U.S. Code.

TREX: Federal-State Extended Unemployment Compensation Act of 1970.

FSB: Emergency Unemployment Compensation Act of 1974 Public Law 93-572.

SUA: Special Unemployment Assistance Program
Public Law 93-567.

DURATION: Most recent spell of unemployment, number of uninterrupted weeks of unemployment since last employed.

SIC CODE: Standard Industrial Classification in accordance with the 1972 Standard Industrial Classification Manual and its Supplements. The classification is that of the most recent employer in the base period of the claim.

OCCUPATIONAL CODE: A three-digit occupational code in accordance with the Dictionary of Occupational Titles and supplements. The occupation code is the most recent job in the last period of the claim.

AVERAGE WEEKLY WAGE: An amount equal to one-twenty-sixth of the total wages reported for an individual in the two highest quarters of his last period or if wages were reported for not more than two quarters the average weekly wage was equal to one-thirteenth of the highest quarter's reported wages.

Table XII

SELECTED CHARACTERISTICS OF INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC.'77-JAN.'78

	ALL PROGRAMS		REGULAR PRO- GRAMS	TRIGGER. EXTEND. BENEFIT (Trex)	FEDERAL SUPP. BENEFIT (FSB)	SPEC. UNEMP. ASSIST (SUA)
	NUMBER	PERCENT	NUMBER	NUMBER	NUMBER	NUMBER
TOTAL	2826	100.0	2354	348	-	124
AGE						
UNDER 20	-	-	-	-	-	-
UNDER 25	611	21.6	540	59	-	12
25 - 34	670	23.7	561	71	-	38
35 - 44	484	17.1	386	59	-	38
45 - 54	440	15.6	363	59	-	18
55 - 64	378	13.4	304	65	-	9
65 & OVER	239	8.5	195	35	-	9
I.N.A.	6	.2	6	-	-	-
SEX						
MEN	1634	57.8	1401	180	-	53
WOMEN	1180	41.8	941	168	-	71
I.N.A.	12	.4	12	-	-	-
ETHNIC GROUP						
WHITE	2814	99.6	2342	348	-	124
NON-WHITE	3	.1	3	-	-	-
I.N.A.	9	.3	9	-	-	-
SPANISH SURNAME	12	.4	12	-	-	-
OCCUPATION						
PROF., TECH., MGT	339	12.0	260	44	-	35
CLERICAL/SALES	658	23.3	516	109	-	32
SERVICES	227	8.0	159	35	-	32
FARM, FISH, FOR.	38	1.3	35	-	-	3
PROCESSING	65	2.3	56	9	-	-
MACHINE TRADES	251	8.9	212	35	-	3
BENCH WORK	292	10.3	274	15	-	3
STRUCTURAL	490	17.3	443	38	-	9
MISC. WORK	466	16.5	398	62	-	6
I.N.A.	-	-	-	-	-	-
RECENT DURATION						
0-9 WEEKS	1546	54.7	1428	71	-	47
10-19 WEEKS	658	23.3	596	41	-	21
20-29 WEEKS	386	13.7	283	68	-	35
30 + WEEKS	236	8.4	47	168	-	21

CONTINUED -1

Table XII (Cont. -2)

	ALL PROGRAMS		REGULAR PRO- GRAMS	TRIGGER. EXTEND. BENEFIT (TREX)	FEDERAL SUPP. BENEFIT (FSB)	SPEC. UNEMP. ASSIST (SUA)
	NUMBER	PERCENT	NUMBER	NUMBER	NUMBER	NUMBER
INDUSTRY ATTACH.						
MANUFACTURING	968	34.3	853	115	-	-
CON. CONSTRUCT	457	16.2	416	41	-	-
TRAN./UTIL.	77	2.7	56	18	-	3
WHOL/RET.TRADE	490	17.3	425	62	-	3
FIN/INS/R.E.	47	1.7	44	3	-	-
SERVICES	283	10.0	221	53	-	9
GOVERNMENTS	419	14.8	271	47	-	100
OTHERS	30	1.1	27	-	-	3
I.N.A.	56	2.0	41	9	-	6
AVE. WEEKLY WAGE						
UNDER \$100	510	18.0	381	97	-	32
\$100 - \$149	690	24.4	569	97	-	24
\$150 - \$199	658	23.3	546	71	-	41
\$200 - \$249	384	13.6	348	27	-	9
\$250 - \$299	212	7.5	198	15	-	-
\$300 OR MORE	357	12.6	298	41	-	18
I.N.A.	15	.5	15	-	-	-
SEPARATION REASON						
LAYOFF	2437	86.2	2033	292	-	112
QUIT VOL. RET.	3	.1	3	-	-	-
QUIT PREGNANCY	3	.1	3	-	-	-
QUIT OTHER	94	3.3	77	15	-	3
DISCHARGES	227	8.0	180	38	-	9
LABOR DISPUTE	-	-	-	-	-	-
OTHER/INA	62	2.2	59	3	-	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIII

OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC. '77-JAN. '78

	ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL	2823	100.0	1767	1056	6
0,1 PROF., TECH., MGR.	339	12.0	224	115	-
00,01 ARCH./ENGINEER	50	1.8	32	18	-
02 MATH & PHY. SCIENCE	3	.1	3	-	-
04 LIFE SCIENCES	6	.2	6	-	-
05 SOCIAL SCIENCES	9	.3	9	-	-
07 MEDICINE & HEALTH	35	1.2	21	15	-
09 EDUCATION	32	1.1	27	6	-
10 MUSEUM, LIBRARY	-	-	-	-	-
11 LAW & JURISPRUDENCE	3	.1	-	3	-
12 RELIGION & THEOLOGY	-	-	-	-	-
13 WRITING	3	.1	3	-	-
14 ART	6	.2	6	-	-
15 ENTERTAINMENT & REC	9	.3	6	3	-
16 ADMINISTRATIVE SPEC	59	2.1	35	24	-
18 MANAGERS & OFFICIAL	109	3.9	65	44	-
19 PROFESSIONAL, TECN	15	.5	12	3	-
2 CLERICAL, SALES	655	23.2	407	248	3
20 STENO, TYPE, FILING	215	7.6	145	71	3
21 COMPUTING & ACCOUNT	171	6.1	100	71	-
22 MATERIAL & PROD REC	86	3.0	59	27	-
23 INFO & MESSAGE DIST	38	1.3	18	21	-
24 MISC CLERICAL	30	1.1	21	9	-
25 SALESMEN, SERVICES	-	-	-	-	-
26,28 SALES, COMMODITI	86	3.0	44	41	-
29 MERCHANDISING	30	1.1	21	9	-
3 SERVICES	224	7.9	121	103	3
30 DOMESTIC SERVICE	3	.1	-	3	-
31 FOOD & BEVERAGE	62	2.2	30	32	-
32 LODGING	12	.4	6	6	3
33 BARBERING, COSMETOLO	-	-	-	-	-
34 AMUSEMENT & REC	3	.1	3	-	-
35 MISC PERSONAL SERV	47	1.7	32	15	-
36 APPAREL & FURNISH	24	.9	6	18	-
37 PROTECTIVE SERV	38	1.3	27	12	-
38 BUILDING & RELATED	35	1.2	18	18	-
40-46 FARM/FISH	38	1.3	27	12	-
5 PROCESSING	65	2.3	21	44	-
50 PROCESSING OF METAL	3	.1	-	3	-
51 ORE REFINING&FOUNDRI	9	.3	3	6	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIII (Cont. -2)

	ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
52 PROCESS/FOOD, TOBACO	9	.3	6	3	-
53 PROCESSING OF PAPER	-	-	-	-	-
54 PROCES/OIL, COAL, GAS	-	-	-	-	-
55 CHEM, PLASTC, SYN, RUB	27	1.0	6	21	-
56 WOOD AND WOOD PROD	3	.1	-	3	-
57 STONE, CLAY, GLASS	3	.1	-	3	-
58 LEATHER, TEXTILES	9	.3	3	6	-
59 PROCES/OCCUPATIONS	3	.1	3	-	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIII (Cont. -3)

OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC. '77-JAN. '78

	ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL	2823	100.0	1767	1056	6
6 MACHINE TRADES	251	8.9	148	103	-
60 METAL MACHINING	9	.3	3	6	-
61 METALWORKING OCCUP	18	.6	15	3	-
62,63 MECHANICS REPAIR	86	3.0	65	21	-
64 PAPERWORKING	6	.2	-	6	-
65 PRINTING	21	.7	18	3	-
66 WOOD MACHING	-	-	-	-	-
67 MACH STONE,CLAY,GLA	6	.2	-	6	-
68 TEXTILE	77	2.7	35	41	-
69 MACHINE TRADES OCCU	30	1.1	12	18	-
7 BENCH WORK	292	10.3	174	118	-
70 FAB,ASSBLY&REPAIR	27	1.0	24	3	-
71 FAB.REPAIR SCI&MED	-	-	-	-	-
72 ASBLY&REPAIR ELECT	121	4.3	74	47	-
73 FAB.REPR ASSRT MATL	6	.2	6	-	-
74 PAINTING, DECORAT	6	.2	6	-	-
75 FAB&REPR PLASTC SYN	3	.1	3	-	-
76 FAB&REPR WOOD PROD	3	.1	-	3	-
77 FAB&REPR SAND STONE	9	.3	3	6	-
78 FAB&REPR TEXTILE	115	4.1	59	56	-
79 BENCH WORK OCCUPAT	3	.1	-	3	-
8 STRUCTURAL WORK	490	17.4	360	130	-
80 METAL FABRICATING	56	2.0	27	30	-
81 WELDERS, FLAME CUTT	9	.3	6	3	-
82 ELECTRICAL ASSBLY	35	1.2	21	15	-
84 PAINT,PLASTER,WATER	97	3.4	62	35	-
85 EXCAVAT,GRAD,PAVE	12	.4	12	-	-
86 CONSTRUCTION OCCUPA	245	8.7	201	44	-
89 STRUCTURAL WORK OCC	35	1.2	32	3	-
9 MISCELLANEOUS	469	16.6	286	183	-
90 MOTOR FREIGHT	91	3.2	65	27	-
91 TRANSPORTATION OCCU	12	.4	6	6	-
92 PACKAGING&MATERIALS	239	8.5	139	100	-
93 EXTRACT OF MINERALS	65	2.3	47	18	-
94 LOGGING OCCUPATIONS	-	-	-	-	-
95 PROD&DIST,UTILITIES	9	.3	3	6	-
96 AMUSE, REC., MOVIES	-	-	-	-	-
97 GRAPHIC ART WORK	35	1.2	24	12	-
999 INFO NOT AVAILABLE	18	.6	3	15	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIIIa

OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC. '77-JAN. '78

		ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL		2823	100.0	1767	1056	6
ACCOUNTING/AUDITING	160	3	.1	-	3	-
BUDGET/MGT ANALYSIS	161	3	.1	-	3	-
PURCHASING MGT	162	15	.5	9	6	-
SALES/DISTRIBUT MGT	163	15	.5	6	9	-
PERSONNEL/TRAIN ADM	166	3	.1	3	-	-
INSPECT/INVEST,MGT	168	3	.1	3	-	-
ADMIN SPECIALT NEC	169	18	.6	15	3	-
MFG INDUSTRY MGT	183	18	.6	12	6	-
TRANS/COMN/UTILT MGT	184	3	.1	3	-	-
WHLE/RETAIL TRAD MGT	185	35	1.2	18	18	-
FINANC/INSUR/R E MGT	186	21	.7	12	9	-
SERVICE INDUSTRY MGT	187	12	.4	9	3	-
MISC MGT WORK NEC	189	21	.7	12	9	-
SECRETARIAL WORK	201	59	2.1	41	18	-
TYPING	203	6	.2	6	-	-
FILING	206	3	.1	3	-	-
MISC OFFIC MACH WORK	208	3	.1	3	-	-
STEN/TYP/FIL/RELATED	209	145	5.1	91	53	3
BOOKKEEPING	210	30	1.1	18	12	-
CASHIERING	211	15	.5	12	3	-
TELLER SERVICE	212	6	.2	6	-	-
AUTOMAT DATA PROCESS	213	65	2.3	38	27	-
BOOKKEEP-MACH WORK	215	3	.1	3	-	-
COMPUT/ACCT RECORDNG	219	53	1.9	24	30	-
CLERICAL WORK PROD	221	9	.3	9	-	-
CLERICAL SHIP/RECV	222	35	1.2	24	12	-
STOCK CHECK/RELATED	223	41	1.5	27	15	-
MAIL SORT ETC	231	3	.1	-	3	-
POST OFFICE CLERICAL	232	9	.3	3	6	-
MAIL DELIVERY	233	6	.2	3	3	-
RECEPTION/INFO DISP	237	18	.6	12	6	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIIIa (Cont. -2)

OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC. '77-JAN. '78

		ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL		2823	100.0	1767	1056	6
ADJUSTING	241	3	.1	-	3	-
DIRECT SERV/CLERICAL	243	9	.3	9	-	-
MISC CLERICAL WORK	249	12	.4	9	3	-
TRANSPORTATION EQUIP	280	9	.3	3	6	-
BUSN&COMMCL MACH	281	3	.1	-	3	-
COMMODITIES NEC	289	53	1.9	32	21	-
SALES CLERKING	290	18	.6	9	9	-
ROUTE WORK	292	3	.1	3	-	-
CANVASSING & SOLICIT	293	3	.1	3	-	-
MERCHANDISING WORK	299	6	.2	6	-	-
FOOD SERVING	311	12	.4	6	6	-
BARTENDING	312	30	1.1	9	21	-
COOKING, LARGE HOTELS	313	6	.2	3	3	-
MISC COOKING	315	6	.2	6	-	-
MEAT CUTTING	316	3	.1	3	-	-
KITCHEN WORK NEC	318	3	.1	3	-	-
FOOD & BEV PREP	319	3	.1	-	3	-
CLEANING & RELAT	381	21	.7	15	6	-
JANITORIAL SERV	382	15	.5	3	12	-
CASTING & MOLDING	556	6	.2	3	3	-
EXTRUDING	557	3	.1	-	3	-
REACTING	558	3	.1	-	3	-
PROCESSING, CHEMICALS	559	15	.5	3	12	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIIIa (Cont. -3)
OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC.'77-JAN.'78

		ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL		2823	100.0	1767	1056	6
MACHINING & RELATED	600	3	.1	-	3	-
ABRADING	603	3	.1	3	-	-
SAWING	607	3	.1	-	3	-
FABRICATING MACHINE	616	3	.1	3	-	-
METAL FORMING NEC	617	6	.2	6	-	-
MISC METALWORKING	619	9	.3	6	3	-
MOTORIZED VEHICLE&ENG.	620	59	2.1	41	18	-
AIRCRAFT REPAIRING	621	9	.3	9	-	-
METALWORKING MACHINE	626	3	.1	3	-	-
SPEC INDUSTRY MACH	629	6	.2	3	3	-
TRIST, BEAM, WRAP, REL	681	3	.1	-	3	-
WEAVING & RELATED	683	6	.2	3	3	-
TEXTILE MACHINE WORK	689	68	2.4	32	35	-
PLASTICS, SYNTHETICS,	690	12	.4	3	9	-
FABRICATION OF PROD	692	6	.2	6	-	-
MISC. MACHINE WORK	699	12	.4	3	9	-
FAB/ASBL&REPAIR TOOL	701	3	.1	3	-	-
METAL UNIT ASBL& ADJ	706	24	.9	21	3	-
RADIO & TV	720	3	.1	3	-	-
ELECTRICAL APPLI&FIX	723	3	.1	3	-	-
COILS, MAGNET, ARMATUR	724	3	.1	3	-	-
LITE BULBS&ELECTRONI	725	6	.2	3	3	-
ELECTRONIC COMPONENT	726	100	3.5	59	41	-
STORAGE BATTERY	727	3	.1	-	3	-
ELECTRICAL EQUIP	729	3	.1	3	-	-

COMMONWEALTH OF MASSACHUSETTS DIVISION OF EMPLOYMENT SECURITY

Table XIIIa (Cont. -4)

OCCUPATIONS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC.'77-JAN.'78

		ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL		2823	100.0	1767	1056	6
UPHOLSTER, MATTRESS	780	3	.1	3	-	-
LAY OUT, MARK, CUT, PUN	781	21	.7	9	12	-
HANDSEW, MEND, EMBROID	782	6	.2	6	-	-
MACHINE SEWING, GARM	786	3	.1	3	-	-
MACH SEW, NONGARMENT	787	41	1.5	24	18	-
FOOTWEAR	788	30	1.1	15	15	-
TEXTILES, LEATHER	789	12	.4	-	12	-
FITT, BOLT, SCREW, RELA	801	24	.9	6	18	-
SHEET METAL WORK	804	21	.7	15	6	-
BOILERMAKING & RELAT	805	3	.1	3	-	-
TRANSP EQUIP ASSEMBL	806	3	.1	3	-	-
BODY WORK, TRANSP EQ	807	3	.1	-	3	-
MISC METAL FABRICAT	809	3	.1	-	3	-
LIGHT EQUIP&BUILD	824	27	1.0	15	12	-
INDUSTRIAL APPARATUS	826	3	.1	3	-	-
ASSMBLY, INSTALL, REPR	829	6	.2	3	3	-
EXCAVAT, GRADNG&RELAT	850	3	.1	3	-	-
CONCRETE PAVING	852	3	.1	3	-	-
EXCAV, GRAD, PAVING	859	6	.2	6	-	-
CARPENTRY & RELATED	860	127	4.5	94	32	-
BRICK&STONE MASONRY	861	21	.7	15	6	-
PLUMBING, GAS FITT	862	38	1.3	32	6	-
ASBESTOS&INSULATION	863	9	.3	9	-	-
FLOOR LAYING&FINISH	864	3	.1	3	-	-
ROOFING&RELATED	866	6	.2	6	-	-
MISC CONSTRUCTION	869	41	1.5	41	-	-
DUMP-TRUCK DRIVING	902	3	.1	3	-	-
TRAILER-TRUCK DRIV	904	6	.2	6	-	-
HEAVY TRUCK DRIV	905	68	2.4	41	27	-
LIGHT TRUCK DRIVING	906	9	.3	9	-	-
MOTOR FREIGHT TRANSP	909	6	.2	6	-	-
PACKAGING	920	50	1.8	24	27	-
HOISTING & CONVEYING	921	6	.2	3	3	-
MATERIAL MOVING&STOR	922	156	5.5	89	68	-
PACK/MATERIALS HANDL	929	27	1.0	24	3	-

Table XIV

AGE AND AVERAGE WEEKLY EARNINGS OF THE INSURED UNEMPLOYED
LOWELL LABOR AREA

DEC. '77-JAN. '78

	TOTAL		MALES		FEMALES	
	NUMBER	PER.	NUMBER	PER.	NUMBER	PER.
TOTAL	2817	100.0	1637	100.0	1180	100.0
AGE GROUPS						
TOTAL	2811	99.8	1634	99.8	1177	99.7
UNDER 20	-	-	-	-	-	-
UNDER 25	611	21.7	389	23.8	221	18.7
25 - 34	670	23.8	395	24.1	274	23.2
35 - 44	481	17.1	260	15.9	221	18.7
45 - 54	440	15.6	230	14.1	209	17.7
55 - 64	372	13.2	212	13.0	159	13.5
65 & OVER	239	8.5	148	9.0	91	7.7
WEEKLY EARN.						
TOTAL	2803	99.5	1628	99.5	1174	99.5
UNDER \$100	510	18.1	130	7.9	381	32.3
\$100-\$149	690	24.5	298	18.2	392	33.2
\$150-\$199	658	23.4	386	23.6	271	23.0
\$200-\$249	378	13.4	292	17.8	86	7.3
\$250-\$299	215	7.6	189	11.5	27	2.3
\$300 +	351	12.5	333	20.3	18	1.5

Table XV

DURATION MOST RECENT SPELL OF UNEMPLOYMENT - ALL PROGRAMS
LOWELL LABOR AREA

DEC.'77-JAN.'78

	ALL AGES NUMBER	PER.	UNDER 45 YRS.	OVER 45 YRS.	NOT AVAIL
TOTAL	2823	100.0	1767	1056	6
BOTH SEXES	2823	100.0	1767	1056	6
0 - 4 WEEKS	1035	36.7	681	354	3
5 - 9 WEEKS	510	18.1	319	192	-
10-14 WEEKS	366	13.0	248	118	-
15-19 WEEKS	289	10.2	174	115	3
20-24 WEEKS	207	7.3	121	86	-
25-29 WEEKS	180	6.4	89	91	-
30 + WEEKS	236	8.4	136	100	-
MEN	1634	57.9	1044	590	3
0 - 4 WEEKS	634	22.5	422	212	3
5 - 9 WEEKS	316	11.2	215	100	-
10-14 WEEKS	195	6.9	139	56	-
15-19 WEEKS	174	6.2	112	62	-
20-24 WEEKS	124	4.4	65	59	-
25-29 WEEKS	80	2.8	27	53	-
30 + WEEKS	112	4.0	65	47	-
WOMEN	1177	41.7	717	460	3
0 - 4 WEEKS	395	14.0	257	139	-
5 - 9 WEEKS	189	6.7	100	89	-
10-14 WEEKS	171	6.1	109	62	-
15-19 WEEKS	115	4.1	62	53	3
20-24 WEEKS	83	2.9	56	27	-
25-29 WEEKS	100	3.5	62	38	-
30 + WEEKS	124	4.4	71	53	-

VII. Labor Supply/Demand Imbalances

The Employment Service Automated Reporting System (ESARS) reported 7,931 active applicants on file with the Lowell Employment Service as of March 31, 1978. Some 3,571 (45 Percent) were female, 507 (6.4 percent) belonged to a minority group, and 2,806 (35.4 percent) were described as being economically disadvantaged. Dividing the applicants according to their ages, 21.6 percent were under 22 years old, 60.7 percent were 22 to 44, and 17.7 percent were 45 years of age or older. Veterans numbered 1,454, or 18.3 percent of the applicants.

Looking at the occupations of the applicants, the largest group, 1,551 people, (19.6 percent) were from clerical and sales. The next largest group 1,208 (15.2 percent) were in structural work, and the third largest group, 1,099 (13.9 percent) were in the miscellaneous category. The miscellaneous category includes truck drivers, service station and parking attendants, and various material handling and packaging occupations. These three groups, clerical and sales, structural and miscellaneous accounted for the occupations of about one half of the applicants.

ESARS Tables 96 shows us that 3,101 openings for jobs in the Lowell LMA had been listed with the DES between October 1, 1977 and March 31, 1978. Mandatory openings, jobs which must be listed with the DES, amounted to a quarter of the total. Some 1,695 (54.7 percent) of the openings were filled and 1,099 (35.4 percent) remained open. The information provided by the Lawrence Job Bank for April 1978, which is on Table XVIII, demonstrates that many of the jobs that are unfilled are fairly high paying, in many cases higher than the jobs in which applicants are placed. Also, nearly three quarters of the unfilled job openings have remained unfilled 30 days or longer.

There are all kinds of reasons why these jobs are so hard to fill. As has been shown, the reasons are not necessarily that the jobs are low paying, or that there aren't enough willing workers. While it would be unwise to make any hard and fast rules, generally the reasons jobs orders placed with the Employment Service go unfilled are that for some reason, such as low pay, inconvenient location, or bad working conditions, a particular position is unattractive to most workers, or, that the available workers don't possess the skills necessary to perform an available job.

Table XVI

ES JOB BANK OPENINGS IN REPORTING DISTRICTS
BY OCCUPATIONAL CATEGORY
LAURENCE MASSACHUSETTS
APRIL, 1978

OCCUPATIONAL CATEGORY	OPENINGS AVAILABLE		AVERAGE PAY		TOTAL		OPENINGS UNFILLED AT MONTH END		UNFILLED 30 DAYS OR MORE
	CURRENT	LAST MONTH	CURRENT	LAST MONTH	CURRENT	LAST MONTH	CURRENT	LAST MONTH	
TOTAL, ALL OCCUPATIONS	4,853	INA	\$ 7,921/YR*	INA	2,728	INA	2,009	INA	
PROFESSIONAL, TECHNICAL, AND MANAGERIAL	809	INA	9,949/YR*	INA	469	INA	406	INA	
CLERICAL AND SALES	779	INA	7,146/YR*	INA	469	INA	364	INA	
SERVICE	656	INA	3.35/HR*	INA	419	INA	226	INA	
FARMING, FISHERY, FORESTRY, AND RELATED	96	INA	3.73/HR*	INA	45	INA	18	INA	
PROCESSING	114	INA	3.53/HR*	INA	69	INA	44	INA	
MACHINE TRADES	526	INA	3.84/HR*	INA	380	INA	273	INA	
BENCH WORK	516	INA	3.10/HR*	INA	265	INA	232	INA	
STRUCTURAL WORK	948	INA	4.22/HR*	INA	414	INA	303	INA	
MISCELLANEOUS	409	INA	3.28/HR*	INA	198	INA	143	INA	

Table XVII

ES JOB BANK OPENINGS IN REPORTING DISTRICTS
AND PERCENT DISTRIBUTION OF JOB BANK OPENINGS BY SELECTED INDUSTRY GROUP
LAWRENCE MASSACHUSETTS
APRIL, 1978

PAGE 1

SELECTED INDUSTRY GROUP	OPENINGS			OPENINGS UNFILLED			PERCENT DISTRIBUTION		
	AVAILABLE*	TOTAL	AS A % OF	30 DAYS OR MORE	AVAILABLE	UNFILLED	OF OPENINGS	UNFILLED	30
TOTAL	4,853	2,728	73.64%	2,009	100.00%	100.00%	100.00%	100.00%	100.00%
TOTAL OPENINGS, ALL INDUSTRIES	4,853	2,728	73.64%	2,009	100.00%	100.00%	100.00%	100.00%	100.00%
TOTAL AGRICULTURE, FORESTRY, AND FISHING (01-09)	17	6	50.00%	3	.35%	.22%	.15%	.33%	.15%
AGRICULTURAL PRODUCTION--CROPS (01)	1	1	100.00%	1	5.88%	16.67%	33.33%	.00%	.00%
AGRICULTURAL PRODUCTION--LIVESTOCK (02)	1	0	.00%	0	5.88%	.00%	.00%	.00%	.00%
AGRICULTURAL SERVICES (07)	13	4	50.00%	2	76.47%	66.67%	66.67%	.00%	.00%
FORESTRY (08)	1	0	.00%	0	5.88%	.00%	.00%	.00%	.00%
FISHING, HUNTING, AND TRAPPING (09)	1	1	.00%	0	5.88%	16.67%	.00%	.00%	.00%
TOTAL CONSTRUCTION (15-17)	117	66	56.06%	37	24.41%	2.42%	1.84%	21.62%	8.11%
BLDG. CONST.-GEN. CONTR. & OPER. BLDG. (15)	29	14	57.14%	8	24.79%	21.21%	6.06%	72.73%	70.27%
CONST. OTHER THAN BLDG.-GEN. CONTRACT. (16)	9	4	75.00%	3	7.69%	6.06%	72.73%	35.67%	38.28%
CONSTRUCTION--SPECIAL TRADE CONTRACTORS(17)	79	48	54.17%	26	67.52%	53.34%	52.26%	1.99%	1.99%
TOTAL MANUFACTURING (20-39)	1,606	973	79.03%	769	52.43%	2.31%	1.90%	2.70%	1.00%
DURABLE GOODS (24,25,32-39)	842	519	77.46%	402	57.14%	1.90%	1.00%	12.33%	12.69%
LUMBER AND WOOD PROD., EXCEPT FURNITURE(24)	16	12	66.67%	8	18.65%	21.19%	17.91%	45.66%	50.25%
FURNITURE AND FIXTURES (25)	35	14	57.14%	8	42.87%	7.51%	9.20%	3.08%	2.24%
STONE, CLAY, GLASS, AND CONCRETE PROD. (32)	16	6	66.67%	4	12.00%	12.33%	12.69%	1.73%	1.74%
PRIMARY METAL INDUSTRIES (33)	16	12	33.33%	4	18.65%	21.19%	17.91%	45.66%	50.25%
FAB. MET. PRO., EX. MACH.&TRANS. EQUIP.(34)	101	64	79.69%	51	12.00%	12.33%	12.69%	1.73%	1.74%
MACHINERY, EXCEPT ELECTRICAL (35)	157	110	65.45%	72	42.87%	7.51%	9.20%	3.08%	2.24%
ELEC. AND ELEC. MACH., EQUIP., AND SUP.(36)	361	237	85.23%	202	12.59%	1.31%	1.73%	46.66%	47.72%
TRANSPORTATION EQUIPMENT (37)	106	39	94.87%	37	2.73%	1.31%	1.73%	46.66%	47.72%
INSTRUMENTS, OPTICAL GOODS, TIME PIECES(38)	23	16	56.25%	9	47.57%	10.86%	9.26%	54%	54%
MISCELLANEOUS MANUFACTURING INDUSTRIES (39)	11	9	77.78%	7	24.48%	29.30%	33.79%	8.17%	3.54%
NONDURABLE GOODS (20-23,26-31)	764	454	80.84%	367	9.03%	7.49%	3.96%	2.45%	6.81%
FOOD AND KINDRED PRODUCTS (20)	83	46	73.91%	34	10.86%	10.13%	9.26%	15.42%	13.90%
TOBACCO MANUFACTURES (21)	2	2	100.00%	2	26%	.44%	.54%	24.45%	21.53%
TEXTILE MILL PRODUCTS (22)	187	133	93.23%	124	24.48%	29.30%	33.79%	8.17%	3.54%
APPAREL AND OTHER FINISHED PROD., FAB. (23)	69	34	88.24%	30	9.03%	7.49%	3.96%	2.45%	6.81%
PAPER AND ALLIED PRODUCTS (26)	34	18	72.22%	13	4.45%	3.96%	2.45%	15.42%	13.90%
PRINTING, PUBLISHING, AND ALLIED IND. (27)	22	13	69.23%	9	4.97%	5.95%	6.81%	24.45%	21.53%
CHEMICALS AND ALLIED PRODUCTS (28)	38	27	92.59%	25	16.88%	15.42%	13.90%	24.45%	21.53%
RUBBER AND MISC. PLASTICS PRODUCTS (30)	129	70	72.86%	51	26.18%	24.45%	21.53%	1.43%	.90%
LEATHER AND LEATHER PRODUCTS (31)	200	111	71.17%	79	1.01%	1.43%	.90%		
TOTAL TRANS., COMM., ELEC., GAS, SAN. SVC (40-49)	49	39	46.15%	18					

Table XVII (Cont.-2)
ES JOB BANK OPENINGS IN REPORTING DISTRICTS
AND PERCENT DISTRIBUTION OF JOB BANK OPENINGS BY SELECTED INDUSTRY GROUP
LAWRENCE
MASSACHUSETTS
APRIL, 1978

PAGE 2

SELECTED INDUSTRY GROUP	OPENINGS		OPENINGS UNFILLED		AS A % OF		PERCENT DISTRIBUTION	
	TOTAL	AVAILABLE	TOTAL	AVAILABLE	TOTAL UNFILLED	AVAILABLE	UNFILLED	UNFILLED 30
							OF OPENINGS	
TOTAL TRANS., COMM., ELEC., GAS, SAN. SVC (40-49)	12	9	9	100.00%	24.49%	23.08%	50.00%	
LOCAL TRANSIT AND INTERURB. HIWAY TRANS(41)	7	4	3	75.00%	14.29%	10.26%	16.67%	
MOTOR FREIGHT TRANSPORT. AND WAREHOUS. (42)	2	1	1	100.00%	4.08%	2.56%	5.56%	
WATER TRANSPORTATION (44)	5	4	3	75.00%	10.20%	10.26%	16.67%	
TRANSPORTATION SERVICES (47)	23	21	2	9.52%	46.94%	53.85%	11.11%	
ELECTRIC, GAS, AND SANITARY SERVICES (49)								
TOTAL WHOLESALE TRADE (50-51)	85	38	29	76.32%	1.75%	1.39%	1.44%	
WHOLESALE TRADE--DURABLE GOODS (50)	39	20	14	70.00%	45.88%	52.63%	48.28%	
WHOLESALE TRADE--NONDURABLE GOODS (51)	46	18	15	83.33%	54.12%	47.37%	51.72%	
TOTAL RETAIL TRADE (52-59)	307	212	150	70.75%	6.33%	7.77%	7.47%	
BLDG. MAT., HW, GAR. SUP., MOB.HM DEAL(52)	12	10	8	80.00%	3.91%	4.72%	5.33%	
GENERAL MERCHANDISE STORES (53)	48	41	18	43.90%	15.64%	19.34%	12.00%	
FOOD STORES (54)	15	7	6	85.71%	4.89%	3.30%	4.00%	
AUTOMOTIVE DEALERS AND GAS SVC. STATION(55)	67	45	31	68.89%	21.82%	21.23%	20.67%	
APPAREL AND ACCESSORY STORES (56)	26	13	9	69.23%	8.47%	6.13%	6.00%	
FURNITURE, HOME FUR. & EQUIP. STORES (57)	22	13	9	69.23%	7.17%	6.13%	6.00%	
EATING AND DRINKING PLACES (58)	97	70	62	88.57%	31.60%	33.02%	41.33%	
MISCELLANEOUS RETAIL (59)	20	13	7	53.85%	6.51%	6.13%	4.67%	
TOTAL FINANCE, INSURANCE, AND REAL ESTATE (60-67)	92	74	66	89.19%	1.90%	2.71%	3.29%	
BANKING (60)	25	23	22	95.65%	27.17%	31.08%	33.33%	
CREDIT AGENCIES OTHER THAN BANKS (61)	3	3	1	33.33%	3.26%	4.05%	1.52%	
INSURANCE (63)	44	30	30	100.00%	47.83%	40.54%	45.45%	
INSURANCE AGENTS, BROKERS, AND SERVICE (64)	6	6	6	100.00%	6.52%	8.11%	9.09%	
REAL ESTATE (65)	12	10	5	50.00%	13.04%	13.51%	7.58%	
COMB. REAL EST., INS., LOANS,LAW OFFICE(66)	1	1	1	100.00%	1.09%	1.35%	1.52%	
HOLDING AND OTHER INVESTMENT OFFICES (67)	1	1	1	100.00%	1.09%	1.35%	1.52%	
TOTAL SERVICES (70-89)	460	292	236	80.82%	9.48%	10.70%	11.75%	
HOTELS, ROOMING HOUSES, CAMPS AND REL. (70)	5	3	3	100.00%	1.09%	1.03%	1.27%	
PERSONAL SERVICES (72)	25	14	10	71.43%	5.43%	4.79%	4.24%	
BUSINESS SERVICES (73)	143	81	66	81.48%	31.09%	27.74%	27.97%	
AUTOMOTIVE REPAIR, SERVICES, & GARAGES (75)	35	31	22	90.97%	7.61%	10.62%	9.34%	
MISCELLANEOUS REPAIR SERVICES (76)	17	8	6	75.00%	3.70%	2.74%	2.54%	
AMUSEMENT AND RECR. SVC. EXCEPT MOVIES (79)	12	11	10	90.91%	2.61%	3.77%	4.24%	
HEALTH SERVICES (80)	137	90	79	87.78%	29.78%	30.82%	33.47%	
LEGAL SERVICES (81)	5	3	3	100.00%	1.09%	1.03%	1.27%	
EDUCATIONAL SERVICES (82)	21	19	18	94.74%	4.57%	6.51%	7.63%	
SOCIAL SERVICES (83)	20	12	8	66.67%	4.35%	4.11%	3.39%	

Table XVII (Cont. -3)
 JOB BANK OPENINGS IN REPORTING DISTRICTS
 AND PERCENT DISTRIBUTION OF JOB BANK OPENINGS BY SELECTED INDUSTRY GROUP
 LAWRENCE
 MASSACHUSETTS
 APRIL, 1978

PAGE 3

SELECTED INDUSTRY GROUP	OPENINGS AVAILABLE	OPENINGS UNFILLED 30 DAYS OR MORE	AS A % OF TOTAL UNFILLED*	AVAILABLE	UNFILLED	PERCENT DISTRIBUTION OF OPENINGS
TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL	TOTAL
TOTAL SERVICES (70-89)	15	6	33.33%	3.26%	2.05%	.85%
MEMBERSHIP ORGANIZATIONS (86)	5	4	50.00%	1.09%	1.37%	.85%
PRIVATE HOUSEHOLDS (88)	20	10	70.00%	4.35%	3.42%	2.97%
MISCELLANEOUS SERVICES (89)						
TOTAL PUBLIC ADMINISTRATION (91-97)	2,120	1,028	68.19%	43.68%	37.68%	34.89%
ADMINISTRATION OF HUMAN RESOURCES PGMS. (94)	1,967	876	79.79%	92.78%	85.21%	99.71%
.. ADMIN. OF ENVIR. QUAL. & HOUSING PGMS. (95)	153	152	1.32%	7.22%	14.79%	.29%

TOTAL ES JOB BANK OPENINGS AND AVERAGE PAY
BY SELECTED INDUSTRY GROUP
LAWRENCE
MASSACHUSETTS
APRIL, 1978

PAGE 1

SELECTED INDUSTRY GROUP	OPENINGS AVAILABLE TOTAL	AVERAGE PAY	OPENINGS UNFULFILLED TOTAL	AVERAGE PAY	OPENINGS UNFULFILLED 30 DAYS TOTAL	AVERAGE PAY
TOTAL OPENINGS, ALL INDUSTRIES	4,853	\$ 7,921	2,728	\$ 8,000	2,009	\$ 8,057
TOTAL AGRICULTURE, FORESTRY, AND FISHING (01-09)	17	7,241	6	7,800	3	7,973
AGRICULTURAL PRODUCTION--CROPS (01)	1	6,240	1	6,240	1	6,240
AGRICULTURAL PRODUCTION--LIVESTOCK (02)	1	6,926	0	0	0	0
AGRICULTURAL SERVICES (07)	13	7,016	4	7,540	2	8,840
FORESTRY (08)	1	8,320	0	0	0	0
FISHING, HUNTING, AND TRAPPING (09)	1	10,400	1	10,400	0	0
TOTAL CONSTRUCTION (15-17)	117	9,794	66	10,433	37	10,367
BLDG. CONST.-GEN. CONTR. & OPER. BLDR. (15)	29	9,486	14	8,888	8	8,246
CONST. OTHER THAN BLDG.-GEN. CONTRACT. (16)	9	9,561	4	9,880	3	8,840
CONSTRUCTION--SPECIAL TRADE CONTRACTORS(17)	79	9,929	48	10,898	26	11,114
TOTAL MANUFACTURING (20-39)	1,606	7,551	973	7,918	769	8,128
DURABLE GOODS (24,25,32-39)	842	8,352	519	8,903	402	9,289
LUMBER AND WOOD PROD., EXCEPT FURNITURE(24)	16	7,020	12	7,323	8	7,735
FURNITURE AND FIXTURES (25)	35	6,625	14	6,807	8	7,414
STONE, CLAY, GLASS, AND CONCRETE PROD. (32)	16	6,729	6	7,582	4	7,082
PRIMARY METAL INDUSTRIES (33)	16	9,100	12	9,360	4	8,320
FAB. MET. PRO., EX. MACH.&TRANS. EQUIP.(34)	101	8,130	64	8,406	51	8,522
MACHINERY, EXCEPT ELECTRICAL (35)	157	8,676	110	9,167	72	9,810
ELEC. AND ELEC. MACH., EQUIP., AND SUP.(36)	361	7,663	237	8,258	202	8,453
TRANSPORTATION EQUIPMENT (37)	106	11,448	39	15,260	37	15,739
INSTRUMENTS, OPTICAL GOODS, TIME PIECES(38)	23	8,174	16	7,305	9	7,571
MISCELLANEOUS MANUFACTURING INDUSTRIES (39)	11	7,482	9	7,180	7	7,486
NONDURABLE GOODS (20-23,26-31)	764	6,666	454	6,783	367	6,838
FOOD AND KINDRED PRODUCTS (20)	83	7,173	46	7,075	34	7,529
TOBACCO MANUFACTURES (21)	2	6,552	2	6,552	2	6,552
TEXTILE MILL PRODUCTS (22)	187	6,667	133	6,691	124	6,709
APPAREL AND OTHER FINISHED PROD., FAB. (23)	69	6,093	34	6,269	30	6,165
PAPER AND ALLIED PRODUCTS (26)	34	6,921	18	6,866	13	6,465
PRINTING, PUBLISHING, AND ALLIED IND. (27)	22	7,110	13	8,648	9	9,342
CHEMICALS AND ALLIED PRODUCTS (28)	38	7,514	27	7,659	25	7,768
RUBBER AND MISC. PLASTICS PRODUCTS (30)	129	7,066	70	7,298	51	7,417
LEATHER AND LEATHER PRODUCTS (31)	200	6,054	111	6,159	79	6,112
TOTAL TRANS., COMM., ELEC., GAS, SAN. SVC (40-49)	49	9,528	39	9,926	18	6,602
LOCAL TRANSIT AND INTERURB. HIGHWAY TRANS(41)	12	6,032	9	5,746	9	5,746

TOTAL ES JOB BANK OPENINGS AND AVERAGE PAY
BY SELECTED INDUSTRY GROUP
LAURENCE MASSACHUSETTS
APRIL, 1978

PAGE 2

SELECTED INDUSTRY GROUP	OPENINGS AVAILABLE TOTAL	AVERAGE PAY	OPENINGS UNFULFILLED TOTAL	AVERAGE PAY	OPENINGS UNFULFILLED 30 DAYS TOTAL	AVERAGE PAY
TOTAL TRANS., COMM., ELEC., GAS, SAN. SVC (40-49)	7	\$ 8,476	4	\$ 9,620	3	\$ 12,480
MOTOR FREIGHT TRANSPORT. AND WAREHOUS. (42)	2	7,540	1	7,800	1	7,800
WATER TRANSPORTATION (44)	5	7,758	4	6,578	3	6,604
TRANSPORTATION SERVICES (47)	23	11,986	21	12,286	2	6,487
ELECTRIC, GAS, AND SANITARY SERVICES (49)						
TOTAL WHOLESALE TRADE (50-51)	85	7,434	38	8,099	29	8,263
WHOLESALE TRADE--DURABLE GOODS (50)	39	7,684	20	8,705	14	9,052
WHOLESALE TRADE--NONDURABLE GOODS (51)	46	7,223	18	7,404	15	7,526
TOTAL RETAIL TRADE (52-59)	307	6,674	212	6,742	150	6,819
BLDG. MAT., HW, GAR. SUP., MOB.HM DEAL (52)	12	7,739	10	7,883	8	7,865
GENERAL MERCHANDISE STORES (53)	48	5,868	41	5,860	18	5,794
FOOD STORES (54)	15	7,725	7	8,773	6	9,195
AUTOMOTIVE DEALERS AND GAS SVC. STATION (55)	67	6,977	45	7,115	31	7,161
APPAREL AND ACCESSORY STORES (56)	26	6,579	13	6,574	9	6,522
FURNITURE, HOME FUR. & EQUIP. STORES (57)	22	7,196	13	7,464	9	7,280
EATING AND DRINKING PLACES (58)	97	6,544	70	6,558	62	6,523
MISCELLANEOUS RETAIL (59)	20	6,314	13	6,518	7	6,564
TOTAL FINANCE, INSURANCE, AND REAL ESTATE (60-67)	72	7,543	74	7,653	66	7,572
BANKING (60)	25	6,292	23	6,351	22	6,389
CREDIT AGENCIES OTHER THAN BANKS (61)	3	6,800	3	6,800	1	7,200
INSURANCE (63)	44	8,113	30	8,410	30	8,410
INSURANCE AGENTS, BROKERS, AND SERVICE (64)	6	8,273	6	8,273	6	8,273
REAL ESTATE (65)	12	8,069	10	8,507	5	7,446
COMB. REAL EST., INS., LOANS, LAW OFFICE (66)	1	7,280	1	7,280	1	7,280
HOLDING AND OTHER INVESTMENT OFFICES (67)	1	5,512	1	5,512	1	5,512
TOTAL SERVICES (70-89)	460	7,380	292	7,461	236	7,480
HOTELS, ROOMING HOUSES, CAMPS AND REL. (70)	5	5,738	3	5,824	3	5,824
PERSONAL SERVICES (72)	25	6,234	14	6,080	10	6,171
BUSINESS SERVICES (73)	143	7,144	81	7,464	66	7,384
AUTOMOTIVE REPAIR, SERVICES, & GARAGES (75)	35	7,849	31	7,942	22	7,759
MISCELLANEOUS REPAIR SERVICES (76)	17	7,504	8	7,810	6	6,411
AMUSEMENT AND RECR. SVC. EXCEPT MOVIES (79)	12	5,729	11	5,729	10	5,710
HEALTH SERVICES (80)	137	7,134	90	7,214	79	7,393
LEGAL SERVICES (81)	5	6,617	3	6,413	3	6,413
EDUCATIONAL SERVICES (82)	21	8,940	19	9,224	18	9,304
SOCIAL SERVICES (83)	20	8,190	12	8,863	8	7,587
MEMBERSHIP ORGANIZATIONS (86)	15	7,362	6	6,859	2	8,588
PRIVATE HOUSEHOLDS (88)	5	6,852	4	5,755	2	5,512

Table XVIII (Cont. - 3)
TOTAL ES JOB BANK OPENINGS AND AVERAGE PAY
BY SELECTED INDUSTRY GROUP
LAWRENCE MASSACHUSETTS
APRIL, 1978

SELECTED INDUSTRY GROUP											
OPENINGS AVAILABLE				OPENINGS UNFILLED				OPENINGS UNFILLED 30 DAYS			
TOTAL	AVERAGE PAY	TOTAL	AVERAGE PAY	TOTAL	AVERAGE PAY	TOTAL	AVERAGE PAY	TOTAL	AVERAGE PAY	TOTAL	AVERAGE PAY
TOTAL SERVICES (70-89)											
MISCELLANEOUS SERVICES (89)											
20	\$ 9,830	10	\$ 8,740	7	\$ 8,697						
TOTAL PUBLIC ADMINISTRATION (91-97)											
2,120	8,391	1,028	8,271	701	8,360						
1,967	8,458	876	8,399	699	8,355						
153	7,532	152	7,531	2	10,109						
ADMIN. OF HUMAN RESOURCES (94)											
ADMIN. OF ENVIR. QUAL. & HOUSING PGMS. (95)											

Table XIX
Active Applicants
and
Available Job Openings*
March 1978

	Active Applicants Lowell ESARS	Openings Lawrence Job Bank**	Openings Lowell LMA	Ratio of Active Applicants to Lowell LMA Openings
Total	7,931	4,853	3,101	2.6:1
Professional, Technical, Managerial	916	809	352	2.6:1
Clerical and Sales	1,551	779	578	2.7:1
Services	909	656	451	2.0:1
Farming, Fishery, Forestry	75	96	3	25.0:1
Processing	161	114	93	1.7:1
Machine Trades	558	526	384	1.5:1
Benchwork	725	516	378	1.9:1
Structural	1,208	948	490	2.5:1
Miscellaneous	1,099	409	370	3.0:1

* Source: March 1978 ESARS

** Source: April 1978 Job Bank, Covers State's Northeast Region.
March figures not available.

Table XIX^a
Ranking of Active Applicants, Claimants
Job Openings and Jobs Filled by Occupation

Lowell LMA

October 1, 1977 - March 31, 1978

	Rank as Percentage of Job Applicants in Active File	Rank as Percentage of Insured Unemployed on Unemployment Compensation	Rank as Percentage of Job Vacancies Listed	Rank as Percentage of Mandatory Listings (Federal Government Contractors)	Rank as Percentage of Total Job Vacancies Filled	Rank as Percentage of Job Vacancies in Occupational Field Filled
Professional, Technical Managerial	4	4	7	5	7	9
Clerical and Sales	1	1	1	1	2	5
Services	5	7	3	6	3	4
Farming, Fishing, Forestry	9	9	9	9	9	2
Processing	8	8	8	8	8	8
Machine Trades	7	6	4	3	5	6
Bench Work	6	5	5	2	6	7
Structural Work	3	2	2	7	1	1
Miscellaneous	2	3	6	4	3	3

VIII. CETA Activities and the Need for Manpower Services

Individuals with low skill and educational levels are the ones most in need of manpower services; but, because of the economic recession of 1974-76, many skilled and educated people have also needed help. While the skilled and educated can be given public service employment as a short term remedy, presuming that they will be able to find work on their own in an improved and expanding job market, the unskilled and the undereducated will always need some form of assistance to get a start.

Low educational levels and lack of job skills are correlative to high unemployment and low incomes, both of which are found among the economically disadvantaged. The economically disadvantaged are defined as members of families which receive cash welfare payments, or whose annual income in relation to family size and location does not exceed the most recently established poverty levels determined in accordance with criteria established by the Office of Management and Budget.

Table XX

1978 Poverty Income Guidelines*

Size of Family Unit	Nonfarm Family	Farm Family
1	\$3,140	\$2,690
2	4,160	3,550
3	5,180	4,410
4	6,200	5,270
5	7,220	6,130
6	8,240	6,990

For family units with more than 6 members, add \$1,020 for each additional member in a nonfarm family, add \$860 for each additional member in a farm family.

*Source: U.S. Department of Labor, Employment and Training Administration.

There are about 14,300 economically disadvantaged persons 18 years and over in the Lowell LMA, and over 4,000 individuals employed only part time for economic reasons.

Table XXI

Economically Disadvantaged
18 Years and Over*

Total	14,343
White	13,913
Nonwhite	430

*Figures too small for more
detailed projection

Table XXII

Projected Number of Persons in Nonagricultural Industries
on a Part-time Status for Economic Reasons

<u>Total</u>	4,027
<u>Sex</u>	
Male	1,836
Female	2,191
<u>Race</u>	
White	3,979
Nonwhite	48

A report of the Northern Middlesex Area Commission (NMAC) reported on in November 1977, stated that 48 percent of the city of Lowell's households, and 20.6 percent of the households in the eight surrounding communities, would be considered lower income. In the NMAC area, median household income was \$7,610, and \$5,327 for "unrelated individuals." For a family to be considered to be in the lower income bracket, earnings must be 80 percent or less of the area median (\$7,610), that is, to be under \$6,088. Individuals had to have an income of 56 percent or less than their group's median income, or under \$2,983. A breakdown by municipality of low income households follows.

Table XXIII

Low Income Households*

City or Town	Number of Households	Number of Low Income Households	Percent of Households Low Income	Percent of Area's Low Income Households**
<u>Area Total</u>	65,920	23,375	35.5	100.0
Lowell	32,722	15,698	48.0	67.2
Billerica	8,146	1,838	22.6	7.9
Chelmsford	8,513	1,325	15.6	5.7
Dracut	5,006	1,398	27.9	6.0
Dunstable	354	70	19.8	0.3
Tewksbury	5,394	1,257	23.3	5.4
Tyngsborough	1,282	490	38.2	2.1
Westford	2,803	678	24.2	2.9
Pepperell***	1,700	621	36.5	2.7

* Figures provided from Northern Middlesex Area Commission

** Do not add to 100% due to rounding

*** Pepperell is in the NMAC area, but not in the Lowell LMA. It is included here only for reference.

Of the total 23,375 low income households in the NMAC area, 13,064 were families, and 10,311 (or 44.1 percent) were "unrelated individual" households. Many of the "unrelated individuals", however, are retired people living on fixed incomes, who are mostly not looking for work. As can be seen from the information on Tables XXVI & XXVII, economically disadvantaged were 1,263 (or 86 percent) of the 1,468 who have been served by the Lowell Consortium so far this year under Title I.

In May of 1977, the Federal Bureau of Labor Statistics issued 70 percent lower living standard income levels for various family sizes. The levels of 85 percent and 100 percent of the lower living standard income level are used to determine eligibility of individuals applying for the Youth Employment and Training Program (YETP) and the upgrade component of the Skill Training Improvement Program (STIP) respectively. The figures for the Lowell Consortium (which includes the same towns as the LMA) are below. Only five different income levels were assigned anywhere in New England.

Table XXIV
Lowell Consortium
Adjustments for Family Size Differences

Lower Living Standard Eligibility Income Level	1	2	3	4	5	6
Metropolitan Area	2,660	4,370	5,990	7,400	8,730	10,210
Nonmetropolitan Areas	2,490	4,080	5,600	6,910	8,160	9,540

The Spanish Community is largely found among the economically disadvantaged. Rev. Daniel Crahen of Unitas, Inc. at a conference on the Hispanic community held in February 1978 at the University of Lowell, said that in Lowell, the average Spanish family of five lives on \$4,500 a year. At the same conference, Reverend Fitzpatrick of Fordham University linked unemployment in the Hispanic community directly to a lack of education. He said that first generation Puerto Ricans nationally had an educational level of 8.6 years, and second generation Puerto Ricans 11.5 years, compared to 12.1 years for all Americans. Although there is educational progress with the second generation, Lowell's Spanish community is largely first generation directly from Puerto Rico.

A survey of the Lowell public schools showed that over 1,000 of the 14,000 students in the system speak only a language other than English. Another 600 to 700 are bilingual, or speak English predominantly while also speaking some other language. While these children can and should be encouraged to improve their English and pursue an education, in order to help them in the job market later on, we are still left with the needs of these children's parents, and often their older brothers and sisters, who are already in the labor force with inadequate education and language fluency in English. While the majority of the children in the survey who had problems with English came from Spanish speaking homes, others came from homes where their families spoke Portuguese, Korean, Nigerian, Arabic, or Filipino.

The Neighborhood Youth Corps employed 1,297 area young people during the summer of 1977. Over half of those employed were from the city of Lowell itself. The program, funded at \$733,400, offered work at sites in all the LMA's towns, and in such areas as law enforcement, education, public works, health, parks and recreation, and social services. It is impossible to estimate the total impact of the Neighborhood Youth Corps. However, according to NYC 1977 program director, Christos Eliopoulos, "it is a positive force in channelling youth's boundless energy into understandable and dignified behavior. We can state unequivocally that the program has a definite meaning in terms of reduction in crime, effect on family income, economic impact on local business and tax savings to the city, not to mention the effect on youth..."

The 1978 NYC program has been funded with \$845,264 of federal CETA money, and will employ between 1,300 and 1,400 people between the ages of 14 and 21 during the months of July and August. Applicants have to be economically disadvantaged to qualify. Also, during 1978's program, more jobs will be given to people from communities other than Lowell, which was overrepresented in 1977's program. The youths enrolled will be given \$2.65 an hour for their work during the eight week period.

Table XXV

Lowell Consortium
Enrollment in CETA Program Activities
Year-to-Date
March 1978

	Activity	Plan	Percent of Plan
<u>Title I</u>			
Total Enrollments	1,468	1,589	92
Classroom Training	293	390	75
On-the-Job Training	286	503	59
Work Experience	520	456	114
<u>Title II</u>			
Public Service Employment	293	236	124
<u>Title VI</u>			
Public Service Employment	1,207	960	125

Table XXVI

Lowell Consortium
CETA Program Status Summary
Grant Year-to-Date Plan
March 1978

Significant Segments	Actual	Plan	Percent of Plan
<u>Title I</u>			
Economically Disadvantaged	1,263	1,358	93
Public Assistance	238	320	74
Spanish American	311	256	121
Handicapped	166	112	148
Offenders	156	64	244
Vietnam Era Veterans	28	80	35
Disabled Veterans	9	16	56
Special Veterans	18	64	28
Black	84	128	66
Female	674	639	105
<u>Title II</u>			
Economically Disadvantaged	197	204	98
Public Assistance	62	47	132
Spanish American	8	24	33
Vietnam Era Veterans	18	42	43
Disabled Veterans	0	5	0
Special Veterans	9	35	26
Black	9	12	75
Female	109	71	153
<u>Title VI</u>			
Recent U.I.	287	258	111
Ineligible U.I.	476	276	172
Exhausted U.I.	230	243	95
AFDC	137	181	76
Female	289	288	100
Veteran	386	336	114
Black	47	38	123
Spanish	56	38	147

Table XXVIIa

Lowell Consortium
Youth Program Status Summary

Significant Segments	Grant Year-to-Date Plan		
	Actual	Plan	Percent of Plan
Economically Disadvantaged	51	130	39
Females	41	68	60
Spanish	1	24	4
Black	0	12	0
Handicapped	0	6	0
Offenders	2	6	33
High School Drop Outs	47	65	72

Table XXVIIb

Lowell Consortium
Youth Program Status Summary

	Enrollment in Program Activities Year-to-Date		
	Actual	Plan	Percent of Plan
Career Employment Experience	35	88	40
Transitional Services	0	0	0
On-the-Job Training	0	40	0
Classroom Training	82	153	54
Work Experience	47	65	72

IX. Outlook

For various reasons the future of the Lowell area is bright, perhaps brighter than it's been any other time this century. There have been many "false alarms" about renewal and progress in the past, but today there are so many beneficial commitments that have already been made that they must certainly have a long term positive impact on the community.

Lowell, along with much of the rest of New England, has for long suffered economically due to a triumvirate of factors which have so often been pointed out: cost, location, and apathy. Fifty years ago the Lowell LMA lost thousands of textile jobs to the South, partly because at that time in the South wage rates and state and local taxes were lower than here in Massachusetts. While costs of doing business in the Commonwealth are still sometimes higher than they are many other places, the picture, even in the last ten years, has gotten comparatively better. Wage rates for manufacturing production workers are no higher in Massachusetts than they are nationally, and in many instances they are lower, and lower still in Lowell than the rest of the State. Also, while state and local taxes have risen in the Commonwealth for the last three years, they have risen less than the national average, marginally improving our competitive edge.

Although Lowell is situated at one end of what is still the nation's largest megalopolis, it is far from many other potential markets, particularly those in the South and the West where most of the country's present growth is taking place. Nothing can change how many miles it is from Lowell to Los Angeles or Dallas. However, some of the high technology manufacturing firms in the area are expanding, so evidently they aren't finding the distances to certain markets in this country a too inhibiting factor. If the L.M.A is not optionally located in relation to much of the United States, it is well sited for overseas markets. The port of Boston is closer to Europe than any other American harbor, and because of the curvature of the earth it is a shorter sailing from Boston to Eastern South America or West Africa than from any other major port on the East Coast.

United States Commerce Department figures show that New England had stronger growth in exports of manufacturing goods than the nation as a whole from 1972 to 1976. James Thornblake, the international economist for the First National Bank of Boston, said that much of New England's growth in exports is the result of sluggish growth in domestic manufacturing sales; one way out of sluggish sales at home being to find export markets.

Although figures as to which industries have contributed most to export growth are not yet available, and the effect on industry in Lowell is not yet fully known, the New England region's industry appears to be finding growing main markets abroad, not just alternative ones. This is particularly true now that the dollar is presently so low in relation to other currencies, and that labor costs are now higher in certain West European countries, such as Germany, Switzerland and Sweden, than they are here.

Since the topic has been location, New Hampshire must be mentioned. For the last several decades Southern New Hampshire has shown tremendous growth, largely due to industries and people leaving Massachusetts. However, now that so many industrial sites have been developed, some firms have complained that they can't find suitable locations on which to build or expand. Also, local taxes have been increasing at an even faster clip than here in Massachusetts. Thus, New Hampshire is becoming a less attractive alternative for Massachusetts employers. Locally, when confronted with the choice, both Wang and Prince have recently decided to expand in the Lowell area rather than open up plants in the Granite State. Confidence in the LMA's future as a manufacturing center was demonstrated in the last few months by the announcement of a proposed new 23 acre industrial park in the city.

It would be impossible to have a discussion about the LMA without mentioning the National Historical Park and the Heritage State Park. No one who cares about Lowell and her future could help but get excited about the two Parks. While there have been some improvements in the area which can already be seen, it is the long term prospects which are the most interesting. But the Parks also point out, and the effort that was expended to get them approved and funded, that if the people in the Lowell LMA or those in charge of the state and local governments, were ever an apathetic lot, they can no longer be accused of being so. The feeling in the area is upbeat and optimistic, which is having a positive effect on the image that Lowell projects.

It is estimated that once the Parks are operating, three-quarters of a million tourists will be visiting the city annually. The effect of such a tide of visitors will of course be great, but how great, and what changes will be caused are largely a matter of conjecture. Already, a great deal of renovation has been done downtown, and much more is planned. The intention is not to make the city a museum, but to have it look as closely as possible as it did during the Victorian era. Frankly, however, with all of the sandblasting, new lighting, and the planting of trees, it is unlikely that downtown ever looked as well as it soon will.

With Lowell developing a new image, and with all the visitors being attracted to it, area residents will take an even greater pride in their area and city, and hopefully patronize it more themselves.

Since the Quincy Market in Boston was renovated, it has drawn tremendous crowds, especially on weekends. One significant thing about these crowds, apart from their size, is that depending on the season, they are 60-85 percent drawn from Boston area residents. Admittedly, the scopes of the renovations are different, and the Quincy Market is just what the name says, a nineteenth century market, and not nineteenth century mills and residences. But the National Historical and Heritage State Parks are intertwined with Lowell's downtown revitalization, and that is where the analogy between the two renovations lies. Just as most of the Quincy Market's success is due to its use by people from Boston itself and its suburbs, Lowell's downtown revitalization will depend more on its use by residents of Billerica and Chelmsford, than on tourists from Baltimore and Chicago.

There are encouraging signs that downtown will be very successful. Many of the merchants have done over their premises; and for most, 1977 was a good business year. Building renovations underway ensure that there will be several hundred additional people residing downtown within the next few years, some estimates put the figure as high as a thousand. These individuals will, because of their location, largely be using the downtown stores. There will also be several hundred additional people working in the Merrimack and Middle Streets section, who will presumably use the area restaurants and shops.

While much has been done, and even more is planned, that does not mean that there aren't important things that could be done downtown that are not yet planned. Although there are many restaurants in the area, there isn't a movie or legitimate theatre in the central part of the city. Lowell at this time probably could not support a large commercial theatre offering only stage plays, but it could certainly support a movie theatre downtown. This would attract more people there at night, which would also help the restaurants and stores.

Secondly, with the increase of visitors to the LMA, it's to be hoped that a hotel or motel facility will be built in the central city. Besides the jobs created at the hotel itself, all the restaurants and stores downtown would benefit. With an overnight facility adjacent to the Parks, tourists would be encouraged to stay longer, and leave more of their dollars behind them. Also, smaller, regional conventions could be attracted, helping both the hotel and local merchants during the cold weather when fewer tourists would come.

Perhaps the best long term result of the new Parks can't really be fully measured. It is the way area residents feel about Lowell, how much pride they take in it, how much they enjoy and wish to continue living there. Having more in the area that they find attractive, perhaps fewer people, particularly the young, will move away. Lowell will never have enough theatre to hold a Betty Davis, and though he loved the city, no one place could have held a Jack Kerouac, but in the future there will hopefully be fewer like Whistler who could say: "I did not choose to be born in Lowell, Massachusetts".

There has been a lot of publicity about the Parks, not just regionally and nationally, but also in Canada and Europe. This publicity has been, on the whole, very positive, portraying Lowell as a place that has had major problems in the past, and still has problems, but whose people care about the city and are doing something to revitalize it. Also, there was a book published recently, "The Lowell Offering", containing the writings of many of the young women who worked in the mills over a century ago, and there has been renewed interest in the life and writings of Jack Kerouac-possibly a film will be made about his life. Millions of people who perhaps never heard of Lowell are thus being introduced to the city. Let's hope they like the introduction well enough that they'll want to come for a visit.

The following is a reprint of an article published in the May 13, 1978 issue of the British weekly newsmagazine, "The Economist". It is included as an example of the publicity that Lowell has been receiving, but also because it is often useful and interesting to see how others view us.

Living Archaeology

Lowell, a shabby red-brick mill town 30 miles north of Boston, is about to get a \$40m federal grant. The money is to make its decaying nineteenth-century industrial centre, one of the birthplaces of the industrial revolution in America, into a national park.

Lowell will get the money not as a tribute to the sweat of factory labour past, but because its city government has, over the past few years, been imaginative and successful in bringing new life to the hulking mills along the Merrimac River. Indeed Lowell has set a pattern of urban renewal that many other decaying New England manufacturing towns would do well to copy.

Lowell grew quickly in the 1820s on the productivity of the power looms that Francis Cabot Lowell had effectively stolen from England, photographing the machinery in his mind and reproducing it in Massachusetts. Chaste young farm-girls, protectively housed in company dormitories, were Lowell's first workforce. Dickens, in his "American Notes" (1842), marked the contrast with Manchester: prettily dressed Lowell girls looked happy on the job, the boardinghouse piano was well used, he wrote.

That Utopian start, however, broke under pressure for greater profits and trade union unrest. After the Civil War, Lowell prospered on the open exploitation of workers just off the boat from Europe, mostly from Ireland. By the 1920s, textiles were in full flight to the deep south. Lowell entered what seemed a permanent depression of economy and spirits.

But in the past few years Lowell has led its own urban revival. It restored the sturdy old structures that survive -- ware-houses, sewer lines, and cobblestoned streets -- frugally but with success. Dilapidated mills in the heart of the town have been converted into apartments for the elderly. Modern manufacturing companies -- making computers, plate glass, or hospital equipment -- have been lured to the city centre, often in or around the old brick factories. The Lowell model of renewal has become fashionable, imitated elsewhere in Massachusetts and now close to the heart of President Carter's urban policy.

Significantly, the early battles for the "new" Lowell were fought against government bureaucracies. Federal and state plans called for a superhighway extension that would have crushed traditional neighbourhoods on its way downtown. This was only stopped after a fight in 1973. And when Lowell wanted to rebuild rather than replace its high school, it had to overcome the state government's orthodoxy which urged rolling woodlands as the proper site for modern education.

Both state and federal housing authorities initially resisted redeveloping the detested mills. Communities for the elderly, they thought, were better placed in suburbs. But those who have moved into the converted mill-building apartments say they much prefer living close to their neighbours, to old workplaces and stores. There are long waiting lists.

The idea of making an urban industrial setting into a national park did not win ready acceptance. In states like Massachusetts, funds for outdoor recreation flow naturally to quasi-rural parklands on the outer fringes of cities, on the theory that public green spaces are a safeguard against the spread of urban blight. In fact that sort of public investment has often just encouraged private housing and industrial developers to flee the cities. Lowell's idea -- pressed by Mr. Frank Keefe who started in the town's politics before becoming Massachusetts's planning director and a pet White House consultant -- has been to direct recreational park money downtown and hope that private capital would follow.

It seems to be working. The humming core of it all, complete with lively new working-class restaurants and stores, is a four-block section of early-industrial Lowell which only three years ago was to have been demolished for an imitation-suburban shopping mall and plaza.

THE FOLLOWING ESARS TABLES HAVE BEEN ENCLOSED TO FOCUS ON THE CHARACTERISTICS OF APPLICANTS REGISTERED IN EMPLOYMENT SERVICE OFFICES FOR OCTOBER 1977 THROUGH MARCH 1978.

TABLE 96, WHICH LISTS THE OCCUPATIONAL ATTACHMENT OF APPLICANTS, GIVES ONLY THE RESPECTIVE DOT CODES. ENCLOSED AFTER THE TABLE IS THE DOT CODES WITH THEIR COMPATIBLE OCCUPATIONAL TITLES.

FOR FURTHER ASSISTANCE CONTACT THE RESEARCH LIBRARY,
DIVISION OF EMPLOYMENT SECURITY, CHARLES F. HURLEY BUILDING,
BOSTON, MASSACHUSETTS 02114.

TABLE 03 ALL INDIVIDUALS PLACEMENT AND REFERRAL OF INDIVIDUALS										03/31/78			MASSACHUSETTS			SMSA 4560			TABLE 03		
ITEM NO	CHARACTERISTICS OF APPLICANTS	TOTAL APPS PLACED	INDIVIDUALS PLACED																		
			NONAGRICULTURAL						AGRICULTURAL												
			TOTAL	OVER 3 DAYS	OVER 150 DAYS	OVER 3 DAYS OR LESS	TOTAL	OVER 3 DAYS OR LESS	OVER 150 DAYS	OVER 3 DAYS OR LESS	INDIVIDUALS REFERRED TO JOB	PLACE- MENT RESULT OF JOB DEVEL	INDIVID FOR WHO JOB DEV CONTACTS WERE MADE								
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O							
03375	CETA	279	279	279	277	0	0	0	0	0	312	0	115	175							
03380	PRIMARY AGENT	0	0	0	0	0	0	0	0	0	1	0	0	0							
03385	SUBGRANTEE	279	279	279	277	0	0	0	0	0	311	0	115	175							
03386	COMPLETELY FINANCED	279	279	279	277	0	0	0	0	0	311	0	115	175							
03387	NONGRANTEE	0	0	0	0	0	0	0	0	0	0	0	0	0							
03388	SEASONAL FARMWORKER	0	0	0	0	0	0	0	0	0	0	0	0	0							
03389	MIGRANT FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0							
03390	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0	0	0							
03395	EMPLOYMENT STATUS	1559	1559	1550	1516	11	0	0	0	0	2894	8	231	522							
03400	FULL TIME	42	42	42	41	0	0	0	0	0	100	0	7	14							
03405	PART TIME	24	24	24	23	0	0	0	0	0	58	0	3	8							
03410	NOT WORKING	1493	1493	1484	1452	11	0	0	0	0	2736	8	221	500							
03415	JOB ATTACHMENT	1	1	1	1	0	0	0	0	0	2	0	0	0							
SMSA 4560			MONTHLY YEAR TO DATE																		
REPORT NO MA5-45			FOR PERIOD ENDING 03/31/78																		

TABLE 04 ALL INDIVIDUALS 03/31/78 MASSACHUSETTS SMSA 4560
INDIVIDUALS ENROLLED IN TRAINING OR PLACED IN SPECIAL CLASS OF OPENINGS

TABLE 04

ITEM NO	CHARACTERISTICS OF APPLICANTS	TOTAL	TRAINING										SPECIAL CLASS OF OPENINGS									
			C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
A																						
04040	AGE	232	165	12	54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04045	UNDER 20	53	44	0	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04047	20-21	35	30	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04050	22-24	32	20	3	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04051	25-29	34	22	2	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04053	30-39	41	21	5	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04055	40-44	15	9	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04060	45-54	19	16	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04065	55-64	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04070	65 AND OVER	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04075	SEX	232	165	12	54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04080	MALE	100	77	0	22	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04085	FEMALE	132	88	12	32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04090	HIGHEST SCHOOL GRADE	232	165	12	54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04095	0-7	14	11	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04100	8-11	104	75	5	23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04105	12	96	68	6	22	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04110	OVER 12	18	11	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04115	RESIDENCE	232	165	12	54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04120	URBAN	229	164	11	53	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04125	RURAL	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04165	ETHNIC GROUP	232	165	12	54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04170	WHITE	218	155	12	50	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04175	BLACK	12	8	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04180	AMERICAN INDIAN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04190	OTHER	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04195	INA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04200	SPANISH AMERICAN	28	22	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04220	ELIGIBLE CLAIMANT	27	21	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04225	STATE	25	20	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04250	VETERAN	15	7	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04254	RECENTLY SEPARATED	4	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04256	DISABLED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04261	VIETNAM ERA	4	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04262	SPECIAL VETERAN	2	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04263	OTHER ELIG VET PREF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04265	HANDICAPPED	10	5	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04266	PHYS DISABLED	9	4	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04268	MENTALLY RETARDED	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04270	MENTALLY RESTORED	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04285	ECON DISADVANTAGED	172	106	12	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04300	FOOD STAMP	14	9	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04350	WELFARE	86	20	12	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04355	WIN	83	17	12	54	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04375	CETA	155	151	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04380	PRIMARY AGENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

SMSA 4560
REPORT NO MA5-46
MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

TABLE 04 ALL INDIVIDUALS 03/31/78 MASSACHUSETTS SMSA 4560
INDIVIDUALS ENROLLED IN TRAINING OR PLACED IN SPECIAL CLASS OF OPENINGS

TABLE 04

ITEM NO	CHARACTERISTICS OF APPLICANTS	TOTAL	TRAINING										SPECIAL CLASS OF OPENINGS									
			C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
A	B																					
04385	SUBGRANTEE	155	155	151	1	3	0	0	0	0	0	155	0	0	0	0	0	0	0	0	0	1
04386	COMPLETELY FINANCED	155	151	151	1	3	0	0	0	0	0	155	0	0	0	0	0	0	0	0	0	1
04387	NONGRANTEE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04388	SEASONAL FARMWORKER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04389	MIGRANT FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04390	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04395	EMPLOYMENT STATUS	232	165	12	54	1	0	0	0	0	0	166	0	0	0	0	0	0	0	0	0	31
04400	FULL TIME	4	1	1	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1
04405	PART TIME	5	2	1	2	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0
04410	NOT WORKING	223	162	10	50	1	0	0	0	0	573	162	0	0	0	0	0	0	0	0	0	30
04415	JOB ATTACHMENT	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
SMSA 4560			MONTHLY YEAR TO DATE																			
REPORT NO MA5-46			FOR PERIOD ENDING 03/31/78																			

TABLE 05 ALL INDIVIDUALS 03/31/78 MASSACHUSETTS
APPLICANTS PROVIDED COUNSELING, TESTING AND RELATED SERVICES

SMSA 4560

TABLE 05

ITEM NO	CHARACTERISTICS OF APPLICANTS	ENROLL IN ORIENTATION	TOTAL	GATB	NATB	BOLT	H	I	J	K	L	M	N	0
A	B	C	D	E	F	G	H	I	J	K	L	M	N	0
05040	AGE	0	169	143	0	0	6	716	0	0	205	1256	0	0
05045	UNDER 20	0	31	27	0	0	0	140	0	0	38	136	0	0
05047	20-21	0	30	24	0	0	3	100	0	0	38	161	0	0
05050	22-24	0	20	18	0	0	1	95	0	0	34	283	0	0
05051	25-29	0	31	28	0	0	1	109	0	0	21	179	0	0
05053	30-39	0	25	20	0	0	1	148	0	0	37	199	0	0
05055	40-44	0	14	9	0	0	0	38	0	0	16	70	0	0
05060	45-54	0	16	15	0	0	0	66	0	0	14	139	0	0
05065	55-64	0	1	1	0	0	0	16	0	0	6	80	0	0
05070	65 AND OVER	0	1	1	0	0	0	4	0	0	1	9	0	0
05075	SEX	0	169	143	0	0	6	716	0	0	205	1256	0	0
05080	MALE	0	88	76	0	0	2	344	0	0	109	888	0	0
05085	FEMALE	0	81	67	0	0	4	372	0	0	96	368	0	0
05090	HIGHEST SCHOOL GRADE	0	169	143	0	0	6	716	0	0	205	1256	0	0
05095	0-7	0	2	2	0	0	0	30	0	0	9	39	0	0
05100	8-11	0	72	64	0	0	1	320	0	0	94	400	0	0
05105	12	0	84	68	0	0	4	295	0	0	81	567	0	0
05110	OVER 12	0	11	9	0	0	1	71	0	0	21	250	0	0
05115	RESIDENCE	0	169	143	0	0	6	716	0	0	205	1256	0	0
05120	URBAN	0	163	138	0	0	6	704	0	0	203	1229	0	0
05125	RURAL	0	6	5	0	0	0	12	0	0	2	27	0	0
05165	ETHNIC GROUP	0	169	143	0	0	6	716	0	0	205	1256	0	0
05170	WHITE	0	165	139	0	0	6	683	0	0	201	1229	0	0
05175	BLACK	0	4	4	0	0	0	28	0	0	3	23	0	0
05180	AMERICAN INDIAN	0	0	0	0	0	0	0	0	0	0	1	0	0
05190	OTHER	0	0	0	0	0	0	4	0	0	1	3	0	0
05195	INA	0	0	0	0	0	0	1	0	0	0	0	0	0
05200	SPANISH AMERICAN	0	3	2	0	0	0	36	0	0	12	50	0	0
05220	ELIGIBLE CLAIMANT	0	30	27	0	0	1	133	0	0	37	345	0	0
05225	STATE	0	28	25	0	0	1	118	0	0	33	283	0	0
05250	VETERAN	0	30	29	0	0	0	93	0	0	34	379	0	0
05254	RECENTLY SEPARATED	0	7	7	0	0	0	15	0	0	5	52	0	0
05256	DISABLED	0	0	0	0	0	0	8	0	0	1	45	0	0
05261	VIETNAM ERA	0	5	5	0	0	0	15	0	0	9	66	0	0
05262	SPECIAL VETERAN	0	1	1	0	0	0	9	0	0	5	22	0	0
05263	OTHER ELIG VET PREF	0	0	0	0	0	0	0	0	0	0	0	0	0
05265	HANDICAPPED	0	19	17	0	0	1	88	0	0	20	150	0	0
05266	PHYS DISABLED	0	19	17	0	0	1	78	0	0	16	145	0	0
05268	MENTALLY RETARDED	0	0	0	0	0	0	3	0	0	1	2	0	0
05270	MENTALLY RESTORED	0	0	0	0	0	0	7	0	0	3	3	0	0
05285	ECON DISADVANTAGED	0	98	85	0	0	1	413	0	0	120	291	0	0
05300	FOOD STAMP	0	10	8	0	0	1	30	0	0	10	40	0	0
05350	WELFARE	0	39	34	0	0	1	262	0	0	56	79	0	0
05355	WIN	0	36	31	0	0	1	249	0	0	55	44	0	0
05375	CETA	0	81	75	0	0	1	255	0	0	103	37	0	0
05380	PRIMARY AGENT	0	0	0	0	0	0	0	0	0	0	1	0	0
05385	SUBGRANTEE	0	81	75	0	0	1	255	0	0	103	36	0	0

SMSA 4560
REPORT NO MA5-47
MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

TABLE 05 ALL INDIVIDUALS															03/31/78															MASSACHUSETTS															SMSA 4560															TABLE 05																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
APPLICANTS PROVIDED COUNSELING, TESTING AND RELATED SERVICES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
ITEM NO	CHARACTERISTICS OF APPLICANTS	ENROLL IN ORIENTATION	INDIVIDUALS GIVEN SPECIFIED TESTS	INDIV COUN- SELED	FUTURE FEDERAL USE	FUTURE FEDERAL USE	REF TO SUPPORT	PLACED AFTER COUN- SELING	REF TO TRAIN- ING	PLACED IN YACC	FUTURE FEDERAL USE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

ITEM NO	CHARACTERISTICS OF APPLICANTS	NEW APPS INCL AND PAR- TIAL	RENEWAL	TOTAL	REGIS- TERED	PART- IALLY REGIS- TERED	POS TERM SERVICE	APPLICANTS PROVIDED	PLACED IN INACTIVE FILE WITH	OTHER SERVICE	NO REPORT SERVICE	FUTURE FEDERAL USE	ACTIVE FILE END OF PERIOD
A	B	C	D	E	F	G	H	I	J	K	L	M	N
06040	AGE	5144	6577	12391	12117	274	1711	2942	7775	1724	1118	1943	0
06045	UNDER 20	812	1015	1527	1519	8	289	448	795	292	189	202	0
06047	20-21	616	823	1313	1310	3	256	357	704	271	135	178	0
06050	22-24	775	1041	1687	1684	3	295	460	935	316	173	235	0
06051	25-29	823	1059	1953	1932	21	277	481	1201	284	173	235	0
06053	30-39	962	1207	2834	2667	167	275	578	1994	248	218	503	0
06055	40-44	328	402	928	891	37	99	170	659	84	68	166	0
06060	45-54	500	638	1433	1401	32	145	299	994	151	110	252	0
06065	55-64	271	332	629	626	3	69	134	427	73	49	110	0
06070	65 AND OVER	57	60	87	87	0	6	15	66	5	3	15	0
06075	SEX	5144	6577	12391	12117	274	1711	2942	7775	1724	1118	1943	0
06080	MALE	3099	4103	6837	6750	87	1098	1813	3947	1122	697	933	0
06085	FEMALE	2045	2474	5554	5367	187	613	1129	3828	602	421	1010	0
06090	HIGHEST SCHOOL GRADE	5144	6577	12391	12117	274	1711	2942	7775	1724	1118	1943	0
06095	0-7	199	255	569	546	23	59	134	378	59	50	77	0
06100	8-11	1691	2215	4260	4151	109	637	1101	2539	642	405	602	0
06105	12	2261	2869	5286	5156	130	706	1239	3348	711	461	858	0
06110	OVER 12	993	1238	2276	2264	12	309	468	1510	312	202	406	0
06115	RESIDENCE	5144	6577	12391	12117	274	1711	2942	7775	1724	1118	1943	0
06120	URBAN	4974	6369	11985	11722	263	1676	2848	7498	1688	1083	1869	0
06125	RURAL	170	208	406	395	11	35	94	277	36	35	74	0
06165	ETHNIC GROUP	5144	6577	12391	12117	274	1711	2942	7775	1724	1118	1943	0
06170	WHITE	5020	6415	12048	11780	268	1635	2859	7586	1644	1088	1898	0
06175	BLACK	74	107	256	250	6	51	68	142	56	22	36	0
06180	AMERICAN INDIAN	3	4	8	8	0	2	1	5	2	0	0	0
06190	OTHER	43	47	75	75	0	23	11	41	22	8	9	0
06195	INA	4	4	4	4	0	0	3	1	0	0	0	0
06200	SPANISH AMERICAN	243	305	599	579	20	122	172	307	117	71	77	0
06220	ELIGIBLE CLAIMANT	2370	2673	5385	5385	0	412	841	4143	450	338	944	0
06225	STATE	2261	2545	5073	5073	0	361	750	3972	399	297	910	0
06250	VETERAN	913	1265	2310	2309	1	392	709	1218	399	283	258	0
06254	RECENTLY SEPARATED	90	143	256	256	0	64	80	115	66	46	23	0
06256	DISABLED	101	142	269	269	0	42	86	142	41	41	28	0
06261	VIETNAM ERA	163	215	311	311	1	61	121	130	62	26	18	0
06262	SPECIAL VETERAN	79	113	222	222	0	47	50	126	52	27	23	0
06263	OTHER ELIG VET PREF	0	0	0	0	0	0	0	0	0	0	0	0
06265	HANDICAPPED	336	477	950	950	0	135	284	536	136	119	106	0
06266	PHYS DISABLED	329	457	906	906	0	127	273	510	125	113	98	0
06268	MENTALLY RETARDED	3	5	9	9	0	3	3	4	2	3	1	0
06270	MENTALLY RESTORED	4	15	35	35	0	5	8	22	9	3	7	0
06285	ECON DISADVANTAGED	1227	1484	4339	4128	211	565	991	2802	576	424	627	0

* DURING THE CURRENT FISCAL YEAR
 ** DURING THE PREVIOUS FISCAL YEAR
 LAST SPELL OF ACTIVE STATUS IN THE PREVIOUS FISCAL YEAR
 MONTHLY YEAR TO DATE
 FOR PERIOD ENDING 03/31/78

TABLE 06 ALL INDIVIDUALS DEGREE OF SERVICE PROVIDED APPLICANTS										MASSACHUSETTS SMSA 4560					TABLE 06																																																																																																																																																																																																																																																																																									
ITEM NO	CHARACTERISTICS OF APPLICANTS	NEW APPS	NEW INCL AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS AND RENEWAL	NEW APPS

TABLE 07
JOB OPENINGS

03/31/78

MASSACHUSETTS

SMSA 4560

TABLE 07

ITEM NO	ITEM	TOTAL NONAG AND AG				NONAGRICULTURAL				AGRICULTURAL				SPECIAL CLASS OF OPENINGS											
		OVER 150 DAYS	4 TO 150 DAYS	3 DAYS OR LESS	OVER 150 DAYS	4 TO 150 DAYS	3 DAYS OR LESS	3 DAYS APPRENTICE-SHIP	CETA/ OJT	CETA/ PSE	CETA/ WORK EXP	WIN/ OJT	WIN/ PSE												
A																									
07010	UNFILLED OPENINGS AS OF LAST DAY PREV FISCAL YEAR	2314	2188	102	1	8	15	0	0	26	152	0	0	0	0	0	2								
07015	ORDERS RECEIVED	1508	1452	48	6	2	0	0	0	109	30	0	0	0	30	0	0								
07020	OPENINGS RECEIVED																								
07025	FISCAL YEAR	3108	2999	90	12	7	0	0	0	146	584	0	0	31	0	0	0								
07030	EMPLOYMENT SERVICE	3108	2999	90	12	7	0	0	0	146	584	0	0	31	0	0	0								
07030	OTHER AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
07031	CETA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
07040	OPENINGS RESULT OF JOB DEVELOPMENT	149	138	11	0	0	0	0	0	31	0	0	0	19	0	0	0								
07045	ORDERS CLOSED	2058	1979	64	6	5	4	0	0	110	71	0	0	30	1	0	1								
07050	OPENINGS FILLED OR CANCELLED	4321	4142	139	12	13	15	0	0	167	615	0	0	31	2	0	2								
07055	FILLED	1695	1644	39	12	0	0	0	0	166	594	0	0	31	0	0	0								
07060	EMPLOYMENT SERVICE	1695	1644	39	12	0	0	0	0	166	594	0	0	31	0	0	0								
07065	OTHER AGENCIES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
07066	CETA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
07067	OTHER STATE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
07070	CANCELLED	2626	2498	100	0	13	15	0	0	1	21	0	0	0	0	0	2								
07105	UNFILLED OPENINGS AT END OF PERIOD	1101	1045	53	1	2	0	0	0	5	121	0	0	0	0	0	0								
SMSA 4560																									
MONTHLY YEAR TO DATE																									
FOR PERIOD ENDING 03/31/78																									
REPORT NO MA5-49																									

TABLE A07

SMSA 4560

TABLE A07
JOB OPENINGS RECEIVED AND FILLED BY OCCUPATION AND SPECIFIED TYPES

ITEM NO	ITEM	TOTAL NONAG AND AG	NONAGRICULTURAL						AGRICULTURAL						SPECIAL CLASS OF OPENINGS																				
			OVER 150 DAYS		4 TO 150 DAYS		3 DAYS OR LESS		OVER 150 DAYS		4 TO 150 DAYS		3 DAYS OR LESS		3 DAYS APPRENTICE-SHIP	J	I	H	G	F	E	D	C	A	K	L	M	N	WIN/ OJT	CETA/ PSE	CETA/ WORK EXP	WIN/ PSE			
			OVER 150 DAYS	4 TO 150 DAYS	3 DAYS OR LESS	OVER 150 DAYS	4 TO 150 DAYS	3 DAYS OR LESS	OVER 150 DAYS	4 TO 150 DAYS	3 DAYS OR LESS																								
B OPENINGS RECEIVED																																			
A07010	TOTAL	3108	2999	90	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07015	0-1 PROF TECH MGR	352	347	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07020	20-24 CLERICAL	519	501	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07025	25-29 SALES	59	48	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07030	30 DOMESTIC	6	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07035	31-39 OTHER SERVICES	446	443	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07040	4 FARM F & F	10	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07045	5 PROCESSING	94	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07050	6 MACHINE TRADES	384	355	29	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07055	7 BENCH WORK	378	377	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07060	8 STRUCTURAL	490	476	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07065	90-91 MOTOR FRGT, TRANSP	84	82	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07070	92 PKG MTRL HNDL	258	241	5	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07075	93-97 OTHER OPENINGS FILLED	28	28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MONTHLY YEAR TO DATE FOR PERIOD ENDING 03/31/78																																			
A07085	TOTAL	1695	1644	39	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
A07090	0-1 PROF TECH MGR	131	130	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07095	20-24 CLERICAL	277	268	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07100	25-29 SALES	19	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07105	30 DOMESTIC	5	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07110	31-39 OTHER SERV	226	224	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07115	4 FARM F & F	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07120	5 PROCESSING	40	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07125	6 MACHINE TRADES	185	175	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07130	7 BENCH WORK	163	162	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07135	8 STRUCTURAL	416	413	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07140	90-91 MOTOR FRGT, TRANSP	67	66	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07145	92 PKG MTRL HNDL	159	144	3	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
A07150	93-97 OTHER	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SMSA 4560																																			
REPORT NO MA5-49A																																			

TABLE B07

JOB OPENINGS RECEIVED AND FILLED BY OCCUPATIONAL CATEGORY AND HOURLY WAGE RATE

03/31/78 MASSACHUSETTS SMSA 4560

TABLE B07

ITEM NO	ITEM	TOTAL	UNDER \$2.30	\$2.30-\$2.64	\$2.65-\$2.99	\$3.00-\$3.49	\$3.50-\$3.99	\$4.00-\$4.49	\$4.50-\$4.99	\$5.00-\$5.49	\$5.50 & AVERAGE OVER	OTHER*	
A B		C	D	E	F	G	H	I	J	K	L	M	N
OPENINGS RECEIVED													
B07010	TOTAL	3108	42	345	541	750	678	376	132	89	141	3.52	14
B07015	0-1	352	0	0	5	20	25	104	91	34	69	4.94	4
B07020	20-24	519	3	29	62	181	203	24	5	4	8	3.41	0
B07025	25-29	59	2	9	19	15	4	5	1	3	0	3.11	1
B07030	30	6	0	3	0	0	0	1	0	2	0	3.55	0
B07035	31-39	446	35	128	117	79	68	5	11	1	0	2.83	2
B07040	4	10	0	0	0	8	2	0	0	0	0	3.19	0
B07045	5	94	0	3	29	34	13	12	0	1	2	3.24	0
B07050	6	384	0	38	91	115	44	49	9	22	16	3.40	0
B07055	7	378	2	53	137	117	28	26	6	4	5	3.09	0
B07060	8	490	0	2	6	52	254	119	7	14	29	4.04	7
B07065	90-91	84	0	7	16	24	13	8	2	3	11	3.84	0
B07070	92	258	0	66	55	95	23	18	0	0	1	3.00	0
B07075	93-97	28	0	7	4	10	1	5	0	1	0	3.15	0
OPENINGS FILLED													
B07085	TOTAL	1695	12	153	197	393	502	256	100	26	54	3.58	2
B07090	0-1	131	0	0	0	4	12	42	63	6	3	4.43	1
B07095	20-24	277	0	8	23	97	126	12	2	0	9	3.52	0
B07100	25-29	19	2	5	6	2	2	2	0	0	0	2.71	0
B07105	30	5	0	2	0	0	0	1	0	2	0	3.76	0
B07110	31-39	226	8	45	48	39	70	5	11	0	0	3.13	0
B07115	4	2	0	0	0	1	1	0	0	0	0	3.58	0
B07120	5	40	0	2	9	18	9	1	0	1	0	3.18	0
B07125	6	185	0	19	30	73	22	20	7	12	2	3.37	0
B07130	7	163	2	32	34	55	13	19	4	3	1	3.10	0
B07135	8	416	0	1	5	39	215	131	12	2	10	3.97	1
B07140	90-91	67	0	3	3	16	9	6	1	0	29	4.68	0
B07145	92	159	0	34	39	48	23	15	0	0	0	3.06	0
B07150	93-97	5	0	2	0	1	0	2	0	0	0	3.29	0

TABLE 09

SMSA 4560

MASSACHUSETTS

03/31/78

TABLE 09

INDIVIDUALS PLACED IN REGULAR JOBS BY INDUSTRIAL AND OCCUPATIONAL CATEGORY AND DIVISION

ITEM NO	OCCUPATIONAL CATEGORIES AND DIVISIONS	PLACE-MENTS	INDIVIDUALS PLACED IN REGULAR JOBS BY INDUSTRIAL DIVISION													
			TOTAL	INDI-VIDUALS PLACED	INDI-VIDUALS PLACED	INDI-VIDUALS PLACED	REGULAR JOBS	FISH	MINING	CONSTR	MFG	TRANSP & UTIL	WHS & RETAIL	FINANCE	SER-VICES	PUBLIC ADMIN-ISTRATION
09010	TOTAL	1678	1559	1550	0	0	0	50	520	49	126	27	193	643		
09015	PROF TECHN MGR	124	121	121	0	0	0	1	7	0	4	3	15	94		
09020	CLERICAL	278	272	272	0	0	0	3	61	8	21	17	40	125		
09025	SALES	19	19	19	0	0	0	1	2	1	13	0	2	0		
09030	DOMESTIC	5	4	4	0	0	0	0	0	0	0	0	4	0		
09035	OTHER SERVICES	225	218	218	0	0	0	0	15	0	25	2	90	88		
09040	FARM F & F	2	2	2	0	0	0	0	0	0	0	0	0	2		
09045	PROCESSING	41	41	41	0	0	0	0	37	0	4	0	0	0		
09050	MACHINE TRADES	183	179	179	0	0	0	5	147	2	9	0	17	0		
09055	BENCHWORK	159	158	158	0	0	0	2	142	0	5	0	9	0		
09060	STRUCTURAL WORK	415	412	412	0	0	0	36	28	4	9	4	8	323		
09065	MOTOR FRT, TRANSP	64	61	64	0	0	0	1	3	34	20	0	5	0		
09070	PKG MATERIALS HDLG	156	145	134	0	0	0	1	92	1	22	0	4	16		
09075	OTHER	7	7	7	0	0	0	0	5	0	0	1	1	0		

SMSA 4560
REPORT NO MA5-51
MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

SMSA 4560
REPORT NO MA5-51

TABLE A09

SMSA 4560

SMSA 4560

03/31/78

TABLE A09 - MINORITY

TABLE A09 - MINORITY

[illegible]

TABLE B09 - ECON DISADVANTAGED INDIVIDUALS PLACED IN REGULAR JOBS BY INDUSTRIAL AND OCCUPATIONAL CATEGORY AND DIVISION

ITEM NO	OCCUPATIONAL CATEGORIES AND DIVISIONS	INDIVIDUALS PLACED IN REGULAR JOBS BY INDUSTRIAL DIVISION													
		PLACE- MENTS EXCLU- DING MASS	TOTAL INDI- VIDUALS PLACED	TOTAL INDI- VIDUALS PLACED REGULAR JOBS	FOR & FISH	AGR	MINING	CONSTR	MFG	TRANSP & UTIL	WHS & RETAIL TRADE	FINANCE.SER- VICES	PUBLIC ADMIN- ISTRA- TION		
A	B	C	D	E	F	G	A	I	J	K	L	M	N		
B09010	TOTAL	485	451	450	0	0	9	164	35	31	11	51	167		
B09015	PROF TECHN MGR	22	22	22	0	0	0	0	0	1	0	3	18		
B09020	CLERICAL	77	76	76	0	0	1	16	5	6	6	7	35		
B09025	SALES	4	4	4	0	0	0	0	0	3	0	1	0		
B09030	DONESTIC	1	1	1	0	0	0	0	0	0	0	0	0		
B09035	OTHER SERVICES	56	55	55	0	0	0	5	0	5	1	25	20		
B09040	FARM F & F	2	2	2	0	0	0	0	0	0	0	0	2		
B09045	PROCESSING	19	19	19	0	0	0	18	0	1	0	0	0		
B09050	MACHINE TRADES	64	62	62	0	0	1	53	1	3	0	5	0		
B09055	BENCHWORK	52	52	52	0	0	0	47	0	2	0	3	0		
B09060	STRUCTURAL WORK	120	119	119	0	0	7	12	3	2	3	4	88		
B09065	MOTOR FRT, TRANSP	34	33	33	0	0	0	0	26	6	0	2	0		
B09070	PKG MATERIALS HDLG	33	29	28	0	0	0	18	0	3	0	0	7		
B09075	OTHER	1	1	1	0	0	0	0	0	0	1	0	0		
SMSA 4560															

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

REPORT NO MA5-51B

TABLE 15 ALL INDIVIDUALS 03/31/78 MASSACHUSETTS SMSA 4560

CHARACTERISTICS OF APPLICANTS PLACED BY WAGE RATE AT WHICH PLACED																		
ITEM NO.	CHARACTERISTICS OF APPLICANTS	TOTAL APPS PLACED	UNDER \$2.30	\$2.30-\$2.64	\$2.65-\$3.00	\$3.00-\$3.49	\$3.50-\$3.99	\$4.00-\$4.49	\$4.50-\$4.99	\$5.00-\$5.49	AVERAGE OVER	OTHER						
A	B	C	D	E	F	G	H	I	J	K	L	M	N					
15040	AGE	1559	16	147	188	369	489	249	93	25	52	0.00	2					
15045	UNDER 20	253	3	46	62	91	40	15	8	2	3	0.00	1					
15047	20-21	229	5	26	36	62	75	29	5	0	3	0.00	0					
15050	22-24	277	2	15	23	68	92	45	29	6	9	0.00	0					
15051	25-29	254	1	18	16	48	81	58	26	2	12	0.00	0					
15053	30-39	249	2	17	24	47	88	45	12	7	22	0.00	0					
15055	40-44	92	1	9	5	19	36	19	3	2	1	0.00	0					
15060	45-54	133	1	13	13	24	46	24	8	4	1	0.00	0					
15065	55-64	67	1	3	7	10	29	13	2	2	1	0.00	0					
15070	65 AND OVER	5	0	0	2	0	2	1	0	0	0	0.00	0					
15075	SEX	1559	16	147	188	369	489	249	93	25	52	0.00	2					
15080	MALE	1037	6	78	106	225	342	215	54	18	43	0.00	1					
15085	FEMALE	522	10	69	82	144	147	34	39	7	9	0.00	1					
15090	HIGHEST SCHOOL GRADE	1559	16	147	188	369	489	249	93	25	52	0.00	2					
15095	0-7	51	0	7	5	18	14	6	0	0	2	0.00	0					
15100	8-11	569	6	81	102	164	148	61	13	7	17	0.00	1					
15105	12	639	6	40	69	151	224	116	33	12	18	0.00	0					
15110	OVER 12	300	4	19	12	36	103	66	47	6	15	0.00	1					
15115	RESIDENCE	1559	16	147	188	369	489	249	93	25	52	0.00	2					
15120	URBAN	1526	15	145	185	365	477	243	89	24	52	0.00	2					
15125	RURAL	33	1	2	3	4	12	6	4	1	0	0.00	0					
15165	ETHNIC GROUP	1559	16	147	188	369	489	249	93	25	52	0.00	2					
15170	WHITE	1494	16	135	177	351	474	241	88	24	52	0.00	2					
15175	BLACK	41	0	7	7	11	11	5	3	1	0	0.00	0					
15180	AMERICAN INDIAN	2	0	1	0	0	0	0	1	0	0	0.00	0					
15190	OTHER	22	0	4	4	7	4	3	1	0	0	0.00	0					
15195	INA	0	0	0	0	0	0	0	0	0	0	0.00	0					
15200	SPANISH AMERICAN	105	2	18	14	43	22	7	4	0	3	0.00	0					
15220	ELIGIBLE CLAIMANT	394	4	28	37	86	125	76	23	9	20	0.00	1					
15225	STATE	344	3	24	31	76	114	64	20	9	16	0.00	1					
15250	VETERAN	390	3	21	30	64	156	91	22	7	16	0.00	0					
15254	RECENTLY SEPARATED	63	0	4	8	15	22	12	5	0	0	0.00	0					
15256	DISABLED	42	1	2	2	8	18	8	1	3	3	0.00	0					
15261	VIETNAM ERA	61	1	4	4	16	26	9	2	1	3	0.00	0					
15262	SPECIAL VETERAN	46	1	2	3	7	18	10	3	1	3	0.00	0					
15263	OTHER ELIG VET PREF	0	0	0	0	0	0	0	0	0	0	0.00	0					
15265	HANDICAPPED	127	1	8	17	24	49	22	4	6	4	0.00	0					
15266	PHYS DISABLED	120	1	8	12	23	48	22	3	6	3	0.00	0					
15268	MENTALLY RETARDED	2	0	0	1	0	0	0	1	0	0	0.00	0					
15270	MENTALLY RESTORED	5	0	0	4	1	1	0	0	0	1	0.00	0					
15285	ECON DISADVANTAGED	451	6	36	49	114	142	65	29	4	32	0.00	0					
15300	FOOD STAMP	37	0	3	6	6	13	8	3	0	3	0.00	0					
15350	WELFARE	142	1	16	24	36	42	13	9	1	6	0.00	0					
15355	WIN	118	1	9	24	30	32	12	8	1	6	0.00	0					
15375	CETA	279	2	7	29	121	58	30	14	4	31	0.00	0					
15380	PRIMARY AGENT	0	0	0	0	0	0	0	0	0	0	0.00	0					
15385	SUBGRANTEE	279	2	7	29	121	58	30	14	4	31	0.00	0					
15386	COMPLETELY FINANCED	279	2	7	29	121	58	30	14	4	31	0.00	0					
SMSA 4560													0					
REPORT NO MA5-56													0					
MONTHLY YEAR TO DATE													0					
FOR PERIOD ENDING 03/31/78													0					

TABLE 15

SMSA 4560

TABLE 15 ALL INDIVIDUALS 03/31/78 MASSACHUSETTS
CHARACTERISTICS OF APPLICANTS PLACED BY WAGE RATE AT WHICH PLACED

TABLE: 15 ALL INDIVIDUALS

ITEM NO.	CHARACTERISTICS OF APPLICANTS	TOTAL APPS PLACED	UNDER \$2,300		\$2,300 - \$2,649	\$2,650 - \$3,000	\$3,000 - \$3,499	\$3,500 - \$3,999	\$4,000 - \$4,499	\$4,500 - \$4,999	\$5,000 - \$5,499	\$5,500 & OVER	AVERAGE	OTHER
			\$2,300	\$2,649	\$2,650 - \$3,000	\$3,000 - \$3,499	\$3,500 - \$3,999	\$4,000 - \$4,499	\$4,500 - \$4,999	\$5,000 - \$5,499				
B														
A		C	D	E	F	G	H	I	J	K	L	M	N	
15387	NONGRANTEE	0	0	0	0	0	0	0	0	0	0	0.00	0	0
15388	SEASONAL FARMWORKER	0	0	0	0	0	0	0	0	0	0	0.00	0	0
15389	MIGRANT FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0.00	0	0
15390	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0.00	0	0
15395	EMPLOYMENT STATUS	1559	16	147	188	369	489	249	93	25	52	0.00	2	2
15400	FULL TIME	42	0	8	4	14	11	3	3	2	2	0.00	0	0
15405	PART TIME	1	0	1	24	1	10	1	4	1	2	0.00	0	0
15410	NOT WORKING	1493	16	138	183	351	468	245	86	22	48	0.00	2	2
15415	JOB ATTACHMENT	1	0	0	0	1	0	0	0	0	0	0.00	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

REPORT NO MA5-56

REPORT NO MA5-56

TABLE A22 - ALL ACTIVITY
ACTIVITY RELATED TO THE PLAN OF SERVICE AND BALANCED PLACEMENT FORMULA

MASSACHUSETTS SMSA 4560

03/31/78

TABLE A22

ITEM NO	ACTIVITY	TOTAL	FEMALE	AGE	UNDER 22	45 AND OVER	TOTAL	VETERAN	DIS- ABLED	MINOR- ITY	ECONO- MICALLY DISAD- VANTAG- ED	RURAL	MIGRANT	HANDI- CAPPED	ELIG CLAI- MANT
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
A22010	APPLICANTS AVAILABLE	12391	5554	2840	2149	2310	311	269	864	4339	406	1	950	5385	
A22015	OTHER WELFARE	160	77	27	34	45	1	5	19	160	2	0	36	28	
A22020	ATTACHED TO A JOB	42	18	2	11	9	1	1	1	6	0	0	2	31	
A22025	SEASONAL FARMWORKERS	3	0	0	0	1	0	0	1	1	0	1	0	1	
A22030	MIGRANT FARMWORKERS	1	0	0	0	1	0	0	0	0	0	1	0	0	
A22035	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22040	CARRY-IN	6213	3242	1114	1163	1132	117	135	481	2986	208	1	502	2761	
A22045	NEW APPLICANTS & RENEWALS	6577	2474	1838	1030	1265	215	142	425	1484	208	0	477	2673	
A22050	PARTIAL REGIST	1	0	0	0	0	0	0	0	0	0	0	0	0	
A22055	OTHER WELFARE	88	50	19	14	15	1	0	13	88	1	0	17	13	
A22060	ATTACHED TO A JOB	6	2	1	1	2	1	1	0	0	0	0	1	3	
A22065	SEASONAL FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22070	MIGRANT FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22075	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22080	COUNSELING	716	372	240	86	93	15	8	66	413	12	0	88	133	
A22085	TESTING	169	81	61	18	30	5	0	7	98	6	0	19	30	
A22090	APTITUDE TESTING	149	71	54	17	29	5	0	6	86	5	0	18	28	
A22095	PERFORMANCE & SELECTION TESTING	23	11	7	1	2	0	0	1	14	2	0	4	3	
A22100	ENROLLMENT IN TRAINING	232	132	88	22	15	4	0	41	172	3	0	10	27	
A22105	INDIVIDUALS PLACED	1559	522	482	205	390	61	42	156	451	33	0	127	394	
A22110	3 DAYS OR LESS	11	0	8	0	1	0	0	2	1	1	0	2	3	
A22115	4-150 DAYS	37	21	15	3	4	2	0	4	6	0	0	6	5	
A22120	OVER 3 DAYS	1550	522	476	205	389	61	42	154	450	32	0	125	392	
A22125	OVER 150 DAYS	1516	502	461	202	385	59	42	150	445	32	0	119	387	
A22130	NONAGRICULTURAL	1559	522	482	205	390	61	42	156	451	33	0	127	394	
A22132	OVER 3 DAYS	1550	522	476	205	389	61	42	154	450	32	0	125	392	
A22135	AGRICULTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22140	AFTER COUNSELING	205	96	76	21	34	9	1	16	120	2	0	20	37	
A22145	AFTER APTITUDE TEST	60	31	27	6	11	4	0	2	40	2	0	3	11	
A22150	AFTER PERFORMANCE & SELEC	6	3	2	0	0	0	0	0	6	0	0	1	1	
A22155	SEASONAL FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22160	MIGRANT FARMWORKERS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22165	MIGRANT FOOD PROCESS WORKER	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22170	OTHER WELFARE	24	15	9	6	5	0	0	7	24	0	0	2	2	
A22175	ATTACHED TO A JOB	1	1	0	0	0	0	0	0	0	0	0	0	1	

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

REPORT NO MA5-69A

TABLE A22 - ALL ACTIVITY
ACTIVITY RELATED TO THE PLAN OF SERVICE AND BALANCED PLACEMENT FORMULA

TABLE A22

MASSACHUSETTS
SMSA 4560

03/31/78

ITEM NO	ACTIVITY	TOTAL	FEMALE	AGE		VETERAN		DIS- ABLED		MINOR- ITY	ECONO- MICAL- LY DISAD- VANTAG- ED	RURAL	MIGRANT	HANDI- CAPPED	ELIG- CLAI- MANT
				UNDER 22	45 AND OVER	TOTAL	VIET- NAM ERA								
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
A22181	UNDER \$2.30	16	10	8	2	3	1	1	2	6	1	0	1	4	
A22186	\$2.30 - \$2.99	322	144	158	37	50	8	4	49	82	5	0	25	60	
A22191	\$3.00 - \$3.99	847	288	263	111	217	39	25	88	252	16	0	72	211	
A22196	\$4.00 AND OVER	414	87	65	56	133	15	14	25	129	11	0	35	126	
TRANSACTIONS															
A22200	TOTAL PLACEMENTS	1678													
A22205	PLACEMENTS (EXCLUDING MASS)	1678	553	528	214	421	69	49	172	485	35	0	140	417	
A22210	NONAGRICULTURAL	1678	553	528	214	421	69	49	172	485	35	0	140	417	
A22215	OVER 3 DAYS	1666	553	519	214	420	69	49	170	484	34	0	138	414	
A22220	AGRICULTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22225	OVER 3 DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22230	MASS PLACEMENTS	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22235	NONAGRICULTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22240	AGRICULTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	
A22245	JOB OPENINGS REC'D	3108													
A22250	NONAGRICULTURAL	3101													
A22255	3 DAYS OR LESS	12													
A22260	4-150 DAYS	90													
A22265	OVER 150 DAYS	2999													
	SKILL LEVEL														
A22270	GROUP I	352													
A22275	GROUP II	797													
A22280	GROUP III	600													
A22285	GROUP IV	1352													
	WAGES														
A22291	UNDER \$2.30	42													
A22296	\$2.30 - \$2.99	886													
A22301	\$3.00 - \$3.99	1421													
A22306	\$4.00 AND OVER	738													
A22310	AGRICULTURAL	7													
A22315	JOB OPENINGS FILLED	1695													
A22320	NONAGRICULTURAL	1695													
A22325	3 DAYS OR LESS	12													
A22330	4-150 DAYS	39													
A22335	OVER 150 DAYS	1644													
	SKILL LEVEL														
A22340	GROUP I	131													
SMSA 4560															
REPORT NO MA5-69A															
MONTHLY YEAR TO DATE FOR PERIOD ENDING 03/31/78															

TABLE A22 - ALL ACTIVITY
ACTIVITY RELATED TO THE PLAN OF SERVICE AND BALANCED PLACEMENT FORMULA

ITEM NO	ACTIVITY	TOTAL FEMALE	AGE		VETERAN		DIS- ABLED	J	K	L	M	HANDI- CAPPED	ELIG- CLAI- MANT
			UNDER 22	45 AND OVER	VET- NAM ERA	MINOR- ITY							
A	B	C	D	E	F	G	H	I					O
A22345	GROUP II	418	-	-	-	-	-	-	-	-	-	-	-
A22350	GROUP III	271	-	-	-	-	-	-	-	-	-	-	-
A22355	GROUP IV	875	-	-	-	-	-	-	-	-	-	-	-
	WAGES												
A22361	UNDER \$2.30	12	-	-	-	-	-	-	-	-	-	-	-
A22366	\$2.30 - \$2.99	350	-	-	-	-	-	-	-	-	-	-	-
A22371	\$3.00 - \$3.99	895	-	-	-	-	-	-	-	-	-	-	-
A22376	\$4.00 AND OVER	436	-	-	-	-	-	-	-	-	-	-	-
A22380	AGRICULTURAL	0	-	-	-	-	-	-	-	-	-	-	-
A22385	REFERRED TO CETA	1256	368	297	228	379	66	45	74	291	27	0	150
SMSA 4560													345
REPORT NO MA5-69A													
MONTHLY YEAR TO DATE FOR PERIOD ENDING 03/31/78													

TABLE 23	03/31/78	MASSACHUSETTS	SMSA 4560	TABLE 23
FOOD STAMP	WORK REGISTRANTS	SERVED		

ITEM NO	APPLICANT CHARACTERISTICS	APPS AVAILABLE	NEW APPLICANTS AND RENEWALS	PLACED		REFERRED		NEGATIVE RESPONSE AND REFERRAL RESULTS				INDIVIDUALS COUNSELLED	INDIVIDUALS TESTED	INDIVIDUALS ENROLLED IN TRAINING
				TRANS	IND	TRANS	IND	TOTAL	FAILED TO RESPOND TO JOB RECALL IN FERRAL RESULTS	J	K			
A	B	C	D	E	F	G	H	I	J	K	L	M	N	
23010	AGE UNDER 20	320	178	43	37	107	75	0	0	0	30	10	14	
23015	20-21	37	15	11	7	27	15	0	0	0	2	1	2	
23020	22-24	35	20	2	2	9	7	0	0	0	5	1	2	
23025	25-29	50	36	8	7	18	13	0	0	0	4	4	1	
23030	30-39	50	26	5	10	12	10	0	0	0	6	1	0	
23035	40-44	82	45	11	10	27	19	0	0	0	9	3	7	
23040	45-54	31	18	3	3	6	6	0	0	0	1	0	1	
23045	55-64	26	14	1	1	6	3	0	0	0	3	0	1	
23050	65 AND OVER	8	4	2	2	2	2	0	0	0	0	0	0	
23055	SEX	1	0	0	0	0	0	0	0	0	0	0	0	
23060	MALE	320	178	43	37	107	75	0	0	0	30	10	14	
23065	FEMALE	168	94	28	24	65	44	0	0	0	13	5	4	
23070	HIGHEST SCHOOL GRADE	152	84	15	13	42	31	0	0	0	17	5	10	
23075	0-7	320	178	43	37	107	75	0	0	0	30	10	14	
23080	8-11	17	12	0	0	2	2	0	0	0	0	0	0	
23085	12	133	73	22	18	60	37	0	0	0	18	3	8	
23090	OVER 12	120	68	13	12	29	23	0	0	0	9	7	6	
23095	ETHNIC GROUP	50	25	8	7	16	13	0	0	0	3	0	0	
23100	WHITE	320	178	43	37	107	75	0	0	0	30	10	14	
23105	BLACK	304	169	40	35	99	70	0	0	0	28	9	13	
23110	AMERICAN INDIAN	12	7	3	2	4	3	0	0	0	2	1	1	
23115	OTHER	2	1	0	0	2	1	0	0	0	0	0	0	
23120	INA	2	1	0	0	2	1	0	0	0	0	0	0	
23125	SPANISH AMERICAN	0	0	0	0	0	0	0	0	0	0	0	0	
23130	VETERAN	26	14	4	3	7	6	0	0	0	2	1	2	
23135	VIETNAM ERA	34	16	7	7	13	11	0	0	0	2	0	0	
23141	EMPLOYMENT STATUS :	4	1	1	1	4	3	0	0	0	0	0	0	
23145	FULL TIME	320	178	43	37	107	75	0	0	0	30	10	14	
23150	PART TIME	13	9	3	3	5	3	0	0	0	2	1	1	
23155	NOT WORKING	6	3	0	0	0	0	0	0	0	1	0	0	
23160	JOB ATTACHMENT	301	166	40	34	102	72	0	0	0	27	9	13	
23165	HEAD OF HOUSEHOLD	0	0	0	0	0	0	0	0	0	0	0	0	
23170	SMSA 4560	263	137	39	34	79	56	0	0	0	24	9	14	
MONTHLY YEAR TO DATE														
FOR PERIOD ENDING 03/31/78														
REPORT NO MA5-70														

TABLE 27

SMSA 4560

MASSACHUSETTS

03/31/78

TABLE 27

PLACEMENT IN OPENINGS RECEIVED FROM FEDERAL CONTRACTORS AND AGENCIES

Item No.	Characteristics of Individuals	Number of Place-ments	Individuals Placed					Total Referrals	Individuals Referred to Job				
			Total	Veterans					Total	Veterans			
				Total	Vietnam Era	Special Dis-abled	Over 150 Days			Over 30 Days	Total	Vietnam Era	Special Dis-abled
A	B	C	D	E	F	G	H	I	J	K	L	M	N
27010	SEX	340	327	67	15	1	316	327	1004	851	217	44	10
27015	MALE	198	188	65	14	1	184	188	627	525	210	40	10
27020	FEMALE	142	139	2	1	0	132	139	377	326	7	4	0
27025	AGE	340	327	67	15	1	316	327	1004	851	217	44	10
27030	UNDER 20	77	73	2	0	0	71	73	187	162	8	0	0
27035	20-24	109	105	25	9	0	101	105	338	280	67	28	2
27040	25-29	39	39	11	3	0	39	39	147	130	40	9	2
27045	30-39	66	62	12	2	1	62	62	167	141	38	4	1
27050	40-44	21	21	4	1	0	17	21	59	47	15	2	0
27055	45-54	19	19	9	0	0	18	19	62	55	25	1	2
27060	55-64	8	7	4	0	0	7	7	39	32	22	0	2
27065	65 & OVER	1	1	0	0	0	1	1	5	4	2	0	1
27070	HIGHEST SCHOOL GRADE COMPLETED	340	327	67	15	1	316	327	1004	851	217	44	10
27075	0-7	10	10	0	0	0	10	10	36	31	7	0	0
27080	8-11	129	124	17	2	0	122	124	344	295	62	6	1
27085	12	149	143	43	12	0	136	143	422	360	102	31	2
27090	OVER 12	52	50	7	1	1	48	50	202	165	46	7	7
27095	ETHNIC GROUP	340	327	67	15	1	316	327	1004	851	217	44	10
27100	WHITE	316	303	63	13	1	293	303	943	800	206	40	10
27105	BLACK	17	17	2	1	0	16	17	48	39	8	3	0
27110	AMERICAN INDIAN	1	1	1	1	0	1	1	1	1	1	1	0
27120	OTHER	6	6	1	0	0	6	6	10	10	2	0	0
27125	INA	0	0	0	0	0	0	0	2	1	0	0	0
27130	SPANISH AMERICAN	37	35	1	0	0	33	35	65	60	2	0	0
27135	ECON DISADVANTAGED	123	121	20	6	1	118	121	216	189	32	7	1
27140	HANDICAPPED	19	18	8	2	1	16	18	88	71	43	5	10

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

TABLE 29
OPENINGS SUBJECT TO MANDATORY LISTING REQUIREMENTS
03/31/78 MASSACHUSETTS

ITEM NO	ITEM	TOTAL	FEDERAL GOVERNMENT	CONTRACTORS & SUBCONTRACTORS	STATE & PRIVATE LOCAL GOVT
A	B	C	D	E	F
29015	UNFILLED OPENINGS - LAST DAY OF PREVIOUS FISCAL YEAR	779	1	41	737
29020	ORDERS RECEIVED	493	9	18	466
29025	OPENINGS RECEIVED	779	17	20	742
29030	ORDERS CLOSED	690	9	39	642
29035	OPENINGS FILLED OR CANCELLED	1235	16	58	1161
29040	FILLED	350	15	16	319
29045	CANCELLED	885	1	42	842
29080	UNFILLED OPENINGS AT END OF PERIOD	323	2	3	318
29085	UNFILLED 30 DAYS OR MORE	192	2	2	188
SMSA 4560	MONTHLY YEAR TO DATE				
REPORT NO MA5-76	FOR PERIOD ENDING 03/31/78				

TABLE 30 - INDIVIDUALS
SELECTED WIN ACTIVITY BY CHARACTERISTICS OF REGISTRANTS

SMSA 4560

03/31/78
MASSACHUSETTS

TABLE 30

ITEM NO	CHARACTERISTICS OF APPLICANTS	REGISTRANTS		ENTERED EMPLOYMENT				TAX CREDITS		DEREGISTRATIONS										TOTAL
		CUMULATIVE TOTAL	ON HAND, END OF PERIOD	D	E	F	G	H	I	J	K	L	M	N	OTHER					
30010	AGE	3013	2286	205	41	165	40	136	10	30	76	8	522	759						
30015	UNDER 20	255	159	28	9	19	7	25	0	4	14	4	58	99						
30020	20-21	110	69	11	1	10	2	11	1	1	7	0	27	44						
30025	22-24	217	150	27	12	16	10	16	5	5	12	0	36	71						
30030	25-29	434	331	25	6	19	8	18	1	8	13	2	71	109						
30035	30-39	1180	945	81	11	70	8	41	3	6	16	1	184	248						
30040	40-44	346	273	20	2	18	3	14	0	3	5	0	54	74						
30045	45-54	411	310	11	0	11	2	10	0	3	9	1	82	103						
30050	55-64	57	47	2	0	2	0	1	0	0	0	0	9	10						
30055	65 AND OVER	3	2	0	0	0	0	0	0	0	0	0	1	1						
30060	SEX	3013	2286	205	41	165	40	136	10	30	76	8	522	759						
30065	MALE	967	661	110	21	90	21	104	0	20	6	4	200	322						
30070	FEMALE	2046	1625	95	20	75	19	32	10	10	70	4	322	437						
30075	HIGHEST SCHOOL GRADE	3013	2286	205	41	165	40	136	10	30	76	8	522	759						
30080	0-7	277	220	15	2	13	5	11	0	0	3	1	48	60						
30085	8-11	1478	1110	115	20	95	22	72	6	10	44	6	256	385						
30090	12	1054	803	57	17	41	9	42	4	15	20	1	188	261						
30095	OVER 12	204	153	18	2	16	4	11	0	5	9	0	30	53						
30100	ETHNIC GROUP	3013	2286	205	41	165	40	136	10	30	76	8	522	759						
30105	WHITE	2917	2208	197	40	158	39	133	8	29	74	6	510	740						
30110	BLACK	87	69	8	1	7	1	3	2	1	2	2	12	19						
30115	AMERICAN INDIAN	2	2	0	0	0	0	0	0	0	0	0	0	0						
30120	OTHER	6	6	0	0	0	0	0	0	0	0	0	0	0						
30125	INA	1	1	0	0	0	0	0	0	0	0	0	0	0						
30130	SPANISH AMERICAN	241	185	17	7	10	8	7	1	1	3	1	47	58						
30135	FOOD STAMP	48	39	2	0	2	2	1	0	0	0	0	7	9						
30140	EMPLOYMENT STATUS	3013	2286	205	41	165	40	136	10	30	76	8	522	759						
30145	FULL TIME	138	122	7	0	7	0	2	1	2	0	0	12	17						
30150	PART TIME	125	106	6	0	6	0	6	0	1	2	0	13	21						
30155	NOT WORKING	2750	2058	192	41	152	40	128	9	27	74	8	497	721						
30160	JOB ATTACHMENT	5	2	1	0	1	0	1	0	0	0	0	3	3						
30165	APPLICANTS FOR AFDC	660	182	12	3	9	0	7	0	30	4	1	148	184						
30170	MANDATORY	634	176	12	3	9	0	7	0	29	3	1	143	178						
30171	UNEMPLOYED FATHERS	212	48	3	0	3	0	0	0	14	0	0	6	20						
30175	VOLUNTARY	27	6	0	0	0	0	0	0	1	1	0	5	7						
30180	RECIPIENTS	2654	2104	193	38	156	40	129	10	-	72	7	374	575						
30185	MANDATORY	2421	1953	171	29	143	30	124	-	-	32	7	335	486						
30186	UNEMPLOYED FATHERS	464	418	43	9	35	14	23	-	-	0	1	18	42						
30190	VOLUNTARY	240	151	22	9	13	10	6	10	-	40	0	39	90						
30195	PREVIOUS WIN REGISTRANT	279	184	25	7	18	8	30	1	3	13	2	90	127						
30200	PLACED	42	-	-	-	-	19	14	2	0	0	0	2	18						
30205	OBTAINED EMPLOYMENT	165	-	-	-	-	0	85	5	0	0	0	6	92						
30210	TOTAL MANDATORY	2764	-	-	-	-	-	-	-	-	-	-	-	-						
30215	UNEMPLOYED FATHERS	537	-	-	-	-	-	-	-	-	-	-	-	-						

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

SMSA 4560
REPORT NO MA5-101

TABLE 30 - INDIVIDUALS
SELECTED WIN ACTIVITY BY

03/31/78

MASSACHUSETTS

SMSA 4560

TABLE 30

[illegible]

A . B
30220 TOTAL VOLUNTEERS
SMSA 4560
REPORT NO MA5-101

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

TABLE 31 - INDIVIDUALS
ENTRANCE TO EMPLOYMENT BY SERVICES RECEIVED

MASSACHUSETTS

SMSA 4560

TABLE 31

ITEM NO.	EMPLOYMENT CATEGORIES AND OTHER ITEMS	TOTAL	ENTERED EMP. CANTS	ENTERED EMPLOYMENT & TRNG COMP	ENTERED EMPLOYMENT (RECIP) AFTER -	ENTERED EMPLOYMENT FROM.	MANDATORY	VOLUNTARY					
A	B	C	D	E	F	G	H	I	J	K	L	M	N
31010	ENTERED EMPLOYMENT	205	12	7	9	22	2	153	8	0	0	183	22
31015	30 DAYS OR MORE	205	12	7	9	22	2	153	8	0	0	183	22
31020	PLACED	41	3	3	6	2	2	25	8	0	0	32	9
31025	OBTAINED EMPLOYMENT												
31030	FULL TIME	165	9	4	3	20	0	129	0	0	0	152	13
31035	PART TIME	191	12	7	9	20	1	142	8	0	0	173	18
31040	LESS THAN 30 DAYS	14	0	0	0	2	1	11	0	0	0	10	4
31045	MANDATORY	0	0	0	0	0	0	0	0	0	0	0	0
31050	UNEMPLOYED FATHERS	183	12	4	6	14	1	146	4	0	0	183	-
31055	UNEMPLOYED	46	3	2	0	2	0	39	1	0	0	46	-
31060	MALE	22	0	3	3	8	1	7	4	0	0	-	22
31065	FEMALE	110	11	3	3	8	0	85	2	0	0	110	0
31070	AGE	95	1	4	6	14	2	68	6	0	0	73	22
31075	UNDER 22	205	12	7	9	22	2	153	8	0	0	183	22
31080	22-44	39	3	1	3	4	1	27	2	0	0	33	6
31085	45 AND OVER	153	9	4	6	17	1	116	6	0	0	138	15
31090	HIGHEST SCHOOL GRADE COMPLETED	13	0	2	0	1	0	10	0	0	0	12	1
31095	0-7	205	12	7	9	22	2	153	8	0	0	183	22
31100	8-11	15	1	1	0	2	0	11	0	0	0	14	1
31105	12	115	5	4	3	12	0	91	2	0	0	103	12
31110	OVER 12	57	4	1	6	6	2	38	6	0	0	48	9
31115	UNDER \$2.30	18	2	1	0	2	0	13	0	0	0	18	0
31120	\$2.30 - \$2.64	2	0	0	0	0	0	2	0	0	0	2	0
31125	\$2.65 - \$2.99	41	1	2	1	7	0	30	0	0	0	37	4
31130	\$3.00 - \$3.49	41	3	1	2	2	1	32	2	0	0	32	9
31135	\$3.50 - \$3.99	41	2	1	2	6	0	30	2	0	0	36	5
31140	\$4.00 AND OVER	31	1	1	2	1	1	25	1	0	0	30	1
31145	COMPONENTS ENTERED	54	5	2	2	6	0	39	3	0	0	51	3
31150	ORIENTATION	40	-	7	9	22	2	-	-	-	-	25	15
31155	IMS	0	-	0	0	0	0	-	-	-	-	0	0
31160	INSTITUTIONAL	3	-	0	0	1	2	-	-	-	-	1	2
31165	WORK EXPERIENCE	10	-	0	-	3	-	-	-	-	-	2	1
31170	SUSPENSE TO TRAINING	18	-	6	-	4	-	-	-	-	-	4	6
31175	OJT	15	-	1	-	17	-	-	-	-	-	12	6
31180	PSE	0	-	7	8	-	-	-	-	-	-	9	6
31185	SUSPENSE TO EMPLOYMENT	0	-	0	0	-	-	-	-	-	-	0	0
31190	POTENTIAL FOLLOW-THROUGH CONTACTS	1	-	0	1	-	-	-	-	-	-	1	0
31195	ACTUAL FOLLOW-THROUGH CONTACTS	176	12	5	10	20	0	129	7	0	0	157	19
31200	FOLLOW-THROUGH CONTACTS EMPLOYED	206	35	5	10	21	0	137	7	0	0	185	21
		193	32	5	10	19	0	129	7	0	0	173	20
			MONTHLY YEAR TO DATE										
			CMSA 4560										

SMSA 4560

ITEM NO	ACTIVITY	TOTAL	FEMALE	ECON- OMIC- ALLY	MINOR- ITY	GROUP	BLACK	OTHER OR SPEC- IFY	H	G	WHITE	OTHER THAN WHITE	SPAN- ISH	HANDI- CAPPED	TOTAL	VIET- NAM	ERA	UNDER 22	45 OR OLDER	ELIG CLAIM- ANT	
A	B	C	D	E	F									J	K	L	M	N	O	P	Q
91010	INTAKE (APPS AVAIL)	12391	5554	4339	864	256	83	599	950	2310	311	489	2840	2149	5385						
91015	PARTIAL REGIST	274	187	211	24	6	0	20	0	1	1	0	11	35	0						
91020	NEW APPLICANTS	5144	2045	1227	329	74	46	243	336	913	163	185	1428	828	2370						
91025	PARTIAL REGIST	1	0	0	0	0	0	0	0	0	0	0	0	0	0						
91030	RENEWALS	1572	481	304	110	37	9	72	144	377	59	72	463	212	325						
91035	COUNSELING	716	372	413	66	28	4	36	88	93	15	24	240	86	133						
91036	INTERVIEWS	714	371	411	66	28	4	36	88	93	15	24	240	86	133						
91037	GROUP SESSIONS	11	5	11	0	0	0	0	0	1	1	0	1	0	2						
91040	TESTING	169	81	98	7	4	0	3	19	30	5	10	61	18	30						
91045	ENROLLMENT IN ORIENT	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91050	REFERRED TO SUPPORT- TIVE SERVICE	1303	376	298	77	24	5	51	165	400	71	98	307	236	365						
91051	REHABILITATION	29	8	6	3	1	1	1	12	4	0	2	7	6	9						
91060	ENROLLMENT IN TRAINING	232	132	172	41	12	2	28	10	15	4	2	88	22	27						
91065	CETA INSTITUTIONAL	165	88	106	31	8	2	22	5	7	3	1	74	19	21						
91070	JOB CORPS	1	0	0	0	0	0	0	0	0	0	0	1	0	0						
91075	WIN INSTITUTIONAL	12	12	12	0	0	0	0	1	0	0	0	0	0	2						
91077	WIN WORK EXPERIENCE	54	32	54	10	4	0	6	4	8	1	1	13	3	4						
91080	OTHER	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91135	JOB DEVELOPMENT	522	238	329	90	17	6	77	47	96	20	18	154	62	127						
91140	PLACEMENT RESULT OF JOB DEVELOPMENT	231	117	141	50	11	9	36	13	30	10	3	74	24	50						
91150	REFERRED TO JOB	2898	969	643	251	76	30	166	244	751	130	152	946	377	880						
91155	NONAGRICULTURAL	2894	969	641	251	76	30	166	244	749	130	152	945	377	879						
91160	AGRICULTURAL	8	0	4	0	0	0	0	0	3	0	0	3	0	1						
91165	PLACED	1559	522	451	156	41	24	105	127	390	61	74	482	205	394						
91170	NONAGRICULTURAL	1559	522	451	156	41	24	105	127	390	61	74	482	205	394						
91175	OVER 3 DAYS	1550	522	450	154	39	24	105	125	389	61	73	476	205	392						
91180	OVER 150 DAYS	1516	502	445	150	37	24	102	119	385	59	72	461	202	387						
91185	3 DAYS OR LESS	11	0	1	2	2	0	0	2	1	0	1	8	0	3						
91190	CLEARANCE	16	4	3	2	1	0	1	1	4	0	0	6	3	4						
91195	PARTIAL REGIST	3	0	1	0	0	0	0	0	0	0	0	0	0	0						
91200	AGRICULTURAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91205	OVER 3 DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91210	OVER 150 DAYS	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91215	3 DAYS OR LESS	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91220	CLEARANCE	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91225	PARTIAL REGIST	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91251	APPRENTICESHIP	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
91255	CETA/OJT	166	55	106	36	3	5	29	8	30	9	3	59	8	38						
91256	CETA/PSE	589	160	157	24	7	4	16	51	188	20	39	110	113	146						
91257	CETA WORK EXP	0	0	0	0	0	0	0	0	0	0	0	0	0	0						

SMSA 4560

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

TABLE 91	03/31/78	MASSACHUSETTS	SMSA 4560	TABLE 91
YEAR-TO-DATE	SUMMARY OF SERVICE TO INDIVIDUALS			

[illegible]

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	ACTIVE FILE										NONAGRICULTURAL OPENINGS									
		TOTAL REGIS-TERED APPS	TOTAL FEMALE	VETERAN	AGE GROUPS	MINOR-ITY	ECONOM-ICALLY DISAD-VANT-AGED	UNDER 22	.45 AND OLDER	J	K	L	M	N	O						
		C	D	E	F	G	H	I	J	K	L	M	N	O							
A	B	12117	7931	3571	1454	1710	1404	507	2806	3101	774	1695	1099	598							
96	TOTAL	1442	916	329	267	46	201	36	166	352	89	131	149	103							
96	0-1	981	604	256	158	29	124	27	112	330	85	123	137	93							
96	00-16	371	253	44	95	13	72	6	43	17	3	6	9	7							
96	18	90	59	29	14	4	5	3	11	5	1	2	3	3							
96	19	2447	1551	1152	164	312	252	56	467	578	156	296	229	115							
96	20-24	1980	1258	1003	103	256	194	48	383	519	141	277	198	93							
96	20-24	467	293	149	61	56	58	8	84	59	15	19	31	22							
96	25-29	1431	909	530	139	228	187	45	425	451	73	231	152	96							
96	30	49	37	37	0	10	9	2	29	6	1	5	0	0							
96	31-39	1382	872	493	139	218	178	43	396	445	72	226	152	96							
96	4	111	75	7	12	20	14	9	20	3	1	2	4	1							
96	5	247	161	38	30	32	29	19	51	93	25	40	33	14							
96	6	864	558	135	136	130	96	63	177	384	148	185	144	78							
96	7	1048	725	509	57	171	138	54	260	378	154	163	176	103							
96	8	1706	1208	18	372	298	175	46	296	490	37	416	107	35							
96	9	1764	1099	277	237	334	168	86	341	370	91	231	104	53							
96	90-91	509	336	28	127	62	42	10	103	84	10	67	20	2							
96	92	1160	701	238	88	260	115	74	223	258	67	159	65	47							
96	93-97	95	62	11	22	12	11	2	15	28	14	5	19	4							
X-ENTRY	TOTAL	538	357	253	25	123	27	64	263	0	0	0	0	0							
96	0-1	76	43	25	5	2	1	7	26	0	0	0	0	0							
96	2	149	107	98	2	39	7	7	85	0	0	0	0	0							
96	3	116	80	67	1	26	11	20	70	0	0	0	0	0							
96	4	1	1	0	0	0	1	0	0	0	0	0	0	0							
96	5	5	3	1	0	2	0	1	1	0	0	0	0	0							
96	6	28	17	4	6	9	0	3	4	0	0	0	0	0							
96	7	74	49	40	2	16	3	14	39	0	0	0	0	0							
96	8	40	26	0	7	18	0	2	11	0	0	0	0	0							
96	9	49	31	18	2	11	4	10	27	0	0	0	0	0							

SMSA 4560

REPORT NO MA5-62

MONTHLY YEAR TO DATE

FOR PERIOD ENDING 03/31/78

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS	TOTAL FEMALE	VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	TOTAL RECEIV- ED	MANDA- TORY OPENING RECEIV- ED	OPENING, FILLED	M	N	O
					UNDER 22	45 AND OLDER							
96	001	6	3	1	0	0	0	1	0	0	0	0	0
96	001281	6	3	1	0	0	0	1	0	0	0	0	0
96	003	59	34	2	17	0	0	3	15	19	2	19	0
96	003081	21	12	0	5	0	0	0	7	1	1	8	14
96	003181	26	16	2	9	0	0	1	5	0	0	7	4
96	003187	1	0	0	0	0	0	0	0	0	0	1	6
96	003281	9	5	0	2	1	0	0	0	0	0	1	1
96	005	21	12	0	6	1	0	1	2	1	1	2	2
96	005081	17	9	0	4	1	0	1	3	1	1	3	3
96	005281	3	3	0	2	0	0	0	0	0	0	0	0
96	007	38	23	2	6	1	0	2	12	1	1	9	4
96	007081	11	9	0	1	1	0	0	4	0	0	1	0
96	007181	12	9	1	3	1	0	1	1	1	1	1	0
96	007187	4	2	1	1	1	0	0	1	0	0	1	0
96	007281	9	3	0	1	0	0	0	6	0	0	4	0
96	008	3	2	0	1	0	0	0	2	0	0	1	0
96	008081	3	2	0	1	0	0	0	1	0	0	1	0
96	010	0	0	0	0	0	0	0	0	0	0	0	0
96	011	4	4	0	2	0	0	1	1	1	0	1	0
96	011281	1	1	0	1	0	0	0	0	0	0	0	0
96	011381	3	3	0	1	0	0	1	0	0	0	0	0
96	012	28	21	2	8	0	0	3	6	1	0	5	2
96	012168	7	6	1	2	0	0	0	2	0	0	2	0
96	012187	2	1	0	1	0	0	0	0	0	0	0	0
96	012188	16	12	1	4	0	0	3	0	0	0	3	2
96	012288	2	1	0	1	0	0	0	4	0	0	0	0
96	013	1	0	0	0	0	0	0	0	0	0	0	0
96	013081	1	0	0	0	0	0	0	0	0	0	0	0
96	015	2	2	1	0	0	0	0	0	0	0	0	0
96	015380	1	1	1	0	0	0	0	0	0	0	0	0
96	017	7	4	0	3	1	0	0	0	0	0	0	0
96	017281	7	4	0	3	1	0	0	2	2	2	1	0
96	018	6	3	1	1	1	0	2	1	1	0	2	1
96	019	10	9	1	4	1	0	3	0	0	0	0	0
96	019081	4	3	0	1	1	0	1	3	1	0	2	0
96	019281	5	5	1	3	0	0	2	5	0	0	2	0
96	020	22	16	6	6	2	0	0	0	2	2	9	0
96	020088	2	1	1	0	0	0	0	0	0	0	0	0
96	020158	4	2	1	0	0	0	0	0	0	0	0	0
96	020188	15	12	5	4	2	0	2	3	1	1	0	0
96	022	12	10	2	1	0	0	2	3	1	0	2	0
96	022081	6	5	1	0	0	0	2	1	1	0	2	0
96	022281	2	2	0	1	0	0	0	0	0	0	0	0
96	023	3	2	0	0	0	0	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

PPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS AVAILABLE	C	D	E	F	G	H	I	J	K	L	M	N	NONAGRICULTURAL OPENINGS
				TOTAL	FEMALE	VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	TOTAL RECEIV- ED	TOTAL MANDA- TORY OPENING	OPENING UNFILLED OPEN			
							UNDER 22	45 AND OLDER							
A	023081	3		2	0	0	0	0	0	0	0	0	0	0	0
6	025	1		0	0	0	0	0	0	0	0	0	0	0	0
6	029	13		7	2	0	0	1	0	0	0	0	1	0	0
6	029281	2		0	0	0	0	0	0	0	0	0	0	0	0
6	040	4		4	0	2	0	0	0	2	0	0	0	0	0
6	040081	4		4	0	2	0	0	0	2	0	0	0	0	0
6	041	4		1	0	0	0	0	0	0	0	0	0	0	0
6	041081	4		1	0	0	0	0	0	0	0	0	0	0	0
6	045	74		37	17	5	1	1	4	7	58	1	52	7	7
6	045088	2		0	0	0	0	0	0	0	1	1	1	0	0
6	050	0		0	0	0	0	0	0	0	0	0	0	1	1
6	050088	3		0	0	0	0	0	0	0	0	0	0	0	0
6	052	2		0	0	0	0	0	0	0	0	0	0	0	0
6	054	2		2	2	0	0	0	0	1	0	0	0	0	0
6	054088	2		2	2	0	0	0	0	1	0	0	0	0	0
6	059	1		1	0	1	0	0	0	0	0	0	0	0	0
6	070	1		1	1	0	0	0	1	1	0	0	0	0	0
6	074	4		3	0	0	0	2	0	0	1	1	0	0	0
6	074181	3		3	0	0	0	2	0	0	1	1	0	0	0
6	075	38		21	19	1	0	2	0	4	51	5	4	16	16
6	075128	11		5	4	0	0	1	1	0	7	1	1	3	3
6	075378	25		16	15	1	0	7	0	4	44	4	3	13	13
6	077	0		0	0	0	0	0	0	0	2	2	0	0	0
6	077168	0		0	0	0	0	0	0	0	2	2	0	0	0
6	078	13		9	7	0	0	0	0	1	2	2	0	0	0
6	078168	1		1	0	0	0	1	0	0	0	0	0	0	0
6	078281	2		2	1	0	0	0	0	0	2	2	0	0	0
6	078368	5		3	3	0	0	0	0	0	0	0	0	0	0
6	078381	4		3	3	0	0	0	0	0	0	0	0	0	0
6	079	71		47	39	8	8	4	3	10	66	2	8	13	12
6	079108	1		0	0	0	0	0	0	0	0	0	0	0	0
6	079368	8		6	1	6	3	0	0	0	0	0	0	0	0
6	079378	56		37	35	1	4	2	3	9	61	2	6	11	11
6	090	9		5	3	0	0	1	0	1	11	1	1	10	2
6	090228	6		4	2	0	0	1	0	1	9	0	0	3	1
6	091	70		38	17	9	1	6	2	6	2	2	0	3	1
6	091228	68		37	17	8	1	5	2	6	2	2	0	3	1
6	092	43		22	18	1	0	6	1	6	0	0	0	0	0
6	092228	42		22	18	1	0	6	1	6	0	0	0	0	0
6	094	11		4	3	1	0	0	1	1	1	0	1	0	0
6	094228	10		3	3	1	0	0	1	1	1	0	1	0	0
6	096	1		1	0	0	0	0	0	1	0	0	0	0	0
6	097	1		0	0	0	0	0	0	1	0	0	0	0	0
6	099	11		11	9	0	0	1	1	7	8	0	0	1	3

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO.	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS	TOTAL FEMALE	VETERAN	AGE GROUPS UNDER 22 .45 AND OLDER	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	J	I	H	G	F	E	D	C	B	A	K	L	M	N	O
16	099228	4	4	2	0	1	1	1	1	1	0	0	0	0	0	0	0	7	0	0	7	0
16	100	6	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	0	0
16	100168	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	0	0
16	109	7	5	2	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	4	0	0
16	110	4	1	1	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
16	110108	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	119	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	119288	2	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	120	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	123108	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	131	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	132	5	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	132088	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	132268	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	137	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	139	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	139288	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	141	10	7	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	141081	8	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	142	14	12	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	142081	12	10	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	143	12	9	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	144	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	148	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	149	7	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	150	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	151	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	152	10	7	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	152048	5	4	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	153	17	11	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	153228	16	11	4	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	153348	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	159	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	160	41	29	3	12	0	0	0	0	0	0	0	0	0	0	0	0	14	9	0	0	0
16	160188	38	26	3	10	0	0	0	0	0	0	0	0	0	0	0	0	12	7	0	0	0
16	160288	3	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	12	2	0	0	0
16	161	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	162	41	28	9	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	162158	34	22	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	163	39	20	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	163118	39	20	0	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	164	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	165	5	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	165068	4	3	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

ITEM NO	OCCUPATIONAL CODE	ACTIVE FILE										NONAGRICULTURAL OPENINGS									
		TOTAL REGIS- TERED APPS	TOTAL FEMALE VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	J	I	H	G	F	E	D	C	B	A	L	M	N	O	
				UNDER .45 AND 22 .OLDER																	
96	166	32	22	8	12	0	5	3	1	3	4	3	3	3	3	3	3	3	3	0	
96	168	16	7	5	1	0	3	1	1	1	2	2	2	2	2	2	2	1	2	0	
96	168168	9	2	2	0	0	1	0	0	0	0	0	0	0	0	0	0	1	1	1	
96	169	96	63	39	15	1	20	1	17	1	9	8	33	33	33	33	7	28	4	0	
96	169168	90	57	36	14	1	17	1	17	1	8	30	30	30	30	4	27	4	4	0	
96	182	16	12	0	7	0	5	1	5	1	3	1	1	1	1	0	0	0	0	0	
96	182168	11	8	0	5	0	2	1	2	1	2	1	1	1	1	0	0	0	0	0	
96	183	44	33	3	14	0	13	2	4	2	4	1	1	1	1	0	0	1	1	0	
96	183118	25	18	2	9	0	8	0	2	2	2	0	0	0	0	0	0	0	0	0	
96	183168	19	15	1	5	0	5	2	2	2	1	1	1	1	1	0	0	1	1	0	
96	184	20	15	1	7	0	5	1	1	0	1	0	0	0	0	0	0	0	0	0	
96	184118	6	5	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	
96	184168	14	10	1	5	0	4	0	4	0	0	0	0	0	0	0	0	0	0	0	
96	185	105	62	16	14	8	12	1	12	1	6	1	1	1	1	1	1	1	1	1	
96	185168	103	61	15	14	7	12	1	12	1	6	1	1	1	1	1	1	1	1	1	
96	186	29	19	3	7	0	3	0	3	0	1	2	2	2	2	2	0	0	0	0	
96	186118	17	12	2	4	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	
96	186168	10	7	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96	187	84	64	15	17	2	22	2	22	2	19	2	2	2	2	2	0	1	0	0	
96	187118	8	6	2	1	1	20	2	20	2	17	2	2	2	2	2	0	0	0	0	
96	187168	75	57	12	16	2	1	1	1	1	2	2	2	2	2	2	0	0	0	0	
96	188	2	1	0	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	
96	189	71	47	6	28	3	11	0	11	0	9	10	10	10	10	1	2	0	0	0	
96	189118	34	24	1	17	0	9	0	9	0	4	0	0	0	0	0	1	2	7	0	
96	189168	36	22	5	11	3	2	0	5	0	5	10	10	10	10	2	2	0	0	0	
96	191	7	6	1	1	0	0	1	2	1	2	0	0	0	0	0	0	0	0	0	
96	193	11	8	1	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96	194	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96	195	59	35	24	4	1	5	2	5	2	0	0	0	0	0	0	0	0	0	0	
96	195108	42	23	16	1	0	1	1	1	1	5	2	2	2	2	2	1	2	2	2	
96	195168	8	5	3	1	0	1	1	1	1	3	2	2	2	2	2	0	2	0	0	
96	196	5	5	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96	199	7	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
96	201	238	139	137	0	24	20	5	19	5	29	39	39	39	39	20	18	15	1	0	
96	201368	236	137	135	0	24	19	5	19	5	29	39	39	39	39	20	18	15	1	0	
96	202	3	2	2	1	0	1	0	1	0	1	3	3	3	3	2	2	2	2	2	
96	202388	3	2	2	1	0	1	0	1	0	1	3	3	3	3	2	2	2	2	2	
96	203	12	6	4	1	2	1	1	1	1	2	3	3	3	3	2	2	2	2	2	
96	203588	10	4	3	0	2	0	0	0	0	1	3	3	3	3	2	2	2	2	2	
96	204	1	0	0	0	0	0	0	0	0	0	1	1	1	1	0	0	1	1	1	
96	205	8	5	3	2	0	3	2	3	2	7	2	2	2	2	2	2	2	2	2	
96	206	30	18	17	1	5	3	0	3	0	7	3	3	3	3	2	2	2	2	2	
96	206388	30	18	17	1	5	3	0	3	0	7	3	3	3	3	2	2	2	2	2	
96	207	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

ITEM NO.	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS	TOTAL FEMALE APPS	VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	J	K	L	M	N	NONAGRICULTURAL OPENINGS
					UNDER 22	22-45	45 AND OLDER						
A	208	5	3	0	0	1	0	0	2	2	0	1	0
6	208588	4	3	0	0	1	0	0	2	2	0	1	0
6	209	545	307	9	99	32	14	108	157	27	75	70	13
6	209388	280	169	4	50	17	10	57	72	23	43	17	5
6	209588	241	121	3	48	10	4	46	83	4	31	53	8
6	210	100	65	3	4	18	1	12	23	7	11	8	3
6	210368	3	0	0	0	0	0	0	0	0	0	0	0
6	210388	96	64	3	4	18	1	12	22	6	11	7	2
6	211	110	69	0	27	5	2	24	9	0	1	1	0
6	211368	72	54	0	24	5	2	14	2	0	1	0	0
6	211468	37	15	0	3	0	0	10	6	0	0	0	0
6	212	27	21	0	5	1	3	10	18	9	3	6	6
6	212368	24	20	0	5	1	3	10	18	9	3	6	6
6	213	84	47	6	6	4	1	24	26	14	6	26	21
6	213382	21	17	5	3	0	1	4	7	5	1	3	3
6	213582	50	33	0	3	3	0	17	18	8	4	23	18
6	214	4	2	0	0	0	0	1	0	0	0	0	0
6	215	19	10	0	1	2	0	3	2	0	1	1	0
6	215388	1	0	0	0	0	0	0	0	0	0	0	0
6	215488	18	10	0	1	2	0	3	2	0	1	1	0
6	216	6	3	0	0	1	0	3	1	1	1	0	0
6	217	1	0	0	0	0	0	0	0	0	0	0	0
6	219	276	154	16	19	45	4	69	134	24	100	18	11
6	219388	196	107	8	13	28	4	60	106	6	90	11	7
6	219488	57	37	5	4	14	1	6	19	13	3	7	4
6	221	25	10	3	2	4	1	1	7	5	0	4	0
6	221368	1	0	0	1	0	0	0	0	0	0	0	0
6	222	133	86	27	21	15	4	23	31	3	19	9	3
6	222387	87	52	17	14	6	1	15	19	1	13	4	2
6	222587	18	15	2	5	0	3	6	5	1	2	2	0
6	223	117	79	29	17	13	3	12	16	6	5	5	2
6	223387	72	45	15	16	3	3	6	9	3	2	2	1
6	224	3	1	0	0	0	1	1	0	0	0	0	0
6	229	2	2	0	0	2	0	0	2	0	0	0	0
6	230	12	7	2	3	2	1	0	2	2	1	1	0
6	230878	11	6	2	3	1	1	2	1	0	1	0	0
6	231	22	14	7	4	5	0	2	1	1	1	0	0
6	231368	1	0	0	0	0	0	0	0	0	0	0	0
6	232	11	9	3	2	1	0	0	0	0	0	0	0
6	233	11	8	1	1	1	0	0	0	0	0	0	0
6	234	1	1	2	1	1	0	0	2	0	0	0	0
6	235	39	24	2	1	2	0	0	5	0	0	1	0
6	235862	35	22	1	1	1	3	13	5	2	3	1	0
6	237	68	45	1	6	6	1	18	11	2	6	3	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

SA 4560
PORT NO MA5-62

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	TOTAL	REGIS- TERED	APPS	AVAIL- ABLE	C	D	E	F	G	H	I	J	K	L	M	N	0
96	237368	68	45	1	1	1	6	6	1	0	0	0	1	18	11	2	6	0
96	239	4	3	1	1	1	0	0	0	0	0	0	0	0	1	1	0	24
96	240	6	4	4	0	0	1	1	0	1	1	0	0	2	2	1	1	0
96	240368	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	240388	4	3	3	0	0	0	0	0	0	0	0	0	2	2	1	1	0
96	241	2	2	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0
96	242	3	2	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
96	242368	3	2	1	0	0	0	0	0	0	0	0	0	1	6	0	0	0
96	243	2	1	0	0	0	0	0	0	0	0	0	0	1	6	5	0	0
96	249	49	30	23	3	0	5	7	2	0	0	2	0	9	9	0	0	0
96	249268	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	249368	39	25	21	2	3	5	5	1	0	0	1	0	8	5	2	5	1
96	250	14	12	3	0	0	0	0	0	0	0	0	0	6	8	0	0	0
96	250258	5	4	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0
96	250358	7	6	2	0	0	0	0	0	0	0	0	0	4	0	0	0	0
96	251	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	252	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	252358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	253	2	1	0	1	0	0	0	0	0	0	0	0	2	2	1	1	0
96	254	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	257	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	258	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	258358	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	262	13	8	1	4	1	0	0	0	0	0	0	0	1	3	0	0	0
96	263	32	20	14	2	2	6	7	0	0	0	0	0	5	3	2	2	1
96	263358	14	9	5	2	2	3	3	0	0	0	0	0	3	2	0	0	0
96	263458	18	11	9	0	0	4	4	0	0	0	0	0	2	1	0	0	0
96	265	2	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
96	266	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	267	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	274	5	3	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0
96	274358	5	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	275	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	276	14	11	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
96	276358	13	10	0	8	0	0	0	0	0	0	0	0	0	0	0	0	0
96	277	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	278	10	9	1	3	1	1	1	0	0	0	0	0	0	0	0	0	0
96	278358	10	9	1	3	1	1	1	0	0	0	0	0	0	0	0	0	0
96	280	19	11	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0
96	280358	19	11	1	3	1	1	0	0	0	0	0	0	0	0	0	0	0
96	281	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	281358	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	282	4	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	283	2	2	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

PPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

TEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS	TOTAL FEMALE AVAILABLE	VETERAN	AGE GROUPS UNDER 22 22-45 45 AND OLDER	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	TOTAL RECEIV- ED	MANDA- TORY OPENING RECEIV- ED	OPENING FILLED	OPENING UNFILLED	TOTAL 30 DAYS OR MORE
A	284	1	0	0	0	0	0	0	0	0	0	0
6	285	1	1	0	0	0	0	0	0	0	0	0
6	286	3	3	0	0	0	0	0	0	0	0	0
6	287	1	0	0	0	0	0	0	0	0	0	0
6	289	126	72	11	23	10	10	9	0	0	0	0
6	289358	61	32	8	6	6	3	1	0	0	0	0
6	289458	63	40	3	17	4	7	8	0	0	0	0
6	290	66	42	1	10	12	20	1	0	0	0	0
6	290468	8	2	0	1	0	19	1	0	0	0	0
6	290478	49	34	0	9	9	1	3	0	0	0	0
6	290877	8	5	1	0	2	1	4	0	0	0	0
6	291	4	3	0	1	1	1	0	0	0	0	0
6	292	26	13	1	0	4	5	6	1	0	0	0
6	292358	25	13	1	0	4	5	6	1	0	0	0
6	293	7	3	0	1	1	0	7	1	0	0	0
6	293358	7	3	0	1	1	0	7	1	0	0	0
6	297	1	1	0	0	0	0	0	0	0	0	0
6	298	2	0	0	0	0	0	0	0	0	0	0
6	299	96	62	11	12	7	25	10	1	0	0	0
6	299138	12	9	2	2	2	18	2	0	0	0	0
6	299468	56	38	2	10	2	1	5	0	0	0	0
6	301	2	1	0	0	0	1	0	0	0	0	0
6	303	5	3	0	0	2	3	0	0	0	0	0
6	303138	5	3	0	0	2	3	0	0	0	0	0
6	304	1	0	0	0	0	0	0	0	0	0	0
6	304887	1	0	0	0	0	0	0	0	0	0	0
6	305	1	0	0	0	0	0	0	0	0	0	0
6	305281	1	0	0	0	0	0	0	0	0	0	0
6	306	15	11	0	1	3	5	5	1	0	0	0
6	306878	15	11	0	1	3	5	5	1	0	0	0
6	307	24	21	0	9	4	19	0	0	0	0	0
6	307878	24	21	0	9	4	19	0	0	0	0	0
6	309	1	1	0	0	0	1	0	0	0	0	0
6	309878	1	1	0	0	0	1	0	0	0	0	0
6	310	8	5	0	1	0	2	4	0	0	0	0
6	311	252	180	168	42	22	122	50	1	0	0	0
6	312	47	33	12	2	8	8	0	0	0	0	0
6	312878	47	33	12	2	8	8	0	0	0	0	0
6	313	45	22	3	7	4	4	6	3	2	2	1
6	313381	31	15	3	7	3	4	5	2	2	2	1
6	314	46	24	10	6	5	9	29	2	2	2	1
6	314381	34	19	9	5	4	9	25	2	2	2	1
6	314781	12	5	1	1	1	0	3	0	0	0	0
6	315	31	20	5	2	5	7	3	0	0	0	0

MONTHLY YEAR TO DATE

FOR PERIOD ENDING 03/31/78

ITEM NO.	OCCUPATIONAL CODE	TOTAL	REGIS- TERED	APPS	AVAIL- ABLE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	0
96	316	16	16	16	16	7	7	1	2	2	2	2	2	3	1	3	1	1	0	0
96	316884	15	15	15	15	6	6	1	2	2	2	2	2	3	1	2	0	0	0	0
96	317	11	11	11	11	9	9	7	0	0	0	0	0	3	0	6	3	2	1	0
96	317887	7	7	7	7	6	6	4	0	0	0	0	0	2	0	4	2	2	0	0
96	318	91	91	91	91	50	50	17	8	8	8	19	14	5	5	22	21	0	14	1
96	318887	91	91	91	91	50	50	17	8	8	8	19	14	5	5	22	21	0	14	1
96	319	5	5	5	5	4	4	3	0	0	0	3	1	0	0	0	2	0	1	0
96	320	2	2	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0
96	321	11	11	11	11	9	9	9	0	0	0	1	2	0	0	3	7	0	6	3
96	323	15	15	15	15	8	8	8	0	0	0	0	4	0	0	5	19	1	6	1
96	323887	14	14	14	14	8	8	8	0	0	0	0	4	0	0	19	1	6	1	0
96	330	4	4	4	4	3	3	0	2	2	0	0	1	0	0	2	0	0	0	0
96	332	47	47	47	47	39	39	36	0	0	0	7	4	1	1	25	8	0	0	3
96	332271	47	47	47	47	39	39	36	0	0	0	7	4	1	1	25	8	0	0	3
96	334	2	2	2	2	2	2	2	0	0	0	0	0	0	0	1	0	0	0	0
96	341	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	342	3	3	3	3	2	2	1	0	0	0	1	0	0	0	0	0	0	0	0
96	343	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	350	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	354	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	355	5	5	5	5	3	3	2	1	1	0	0	2	0	0	2	0	0	0	0
96	355	209	209	209	209	125	125	111	4	4	4	31	14	4	4	61	95	31	28	24
96	355878	207	207	207	207	124	124	110	4	4	4	31	14	4	4	61	95	31	28	24
96	356	10	10	10	10	5	5	1	3	3	0	0	1	0	0	2	0	0	0	0
96	357	2	2	2	2	1	1	1	0	0	0	0	0	0	0	1	0	0	0	0
96	358	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	359	60	60	60	60	33	33	29	2	2	8	8	3	2	2	11	2	2	1	0
96	359878	57	57	57	57	31	31	27	2	2	8	8	3	2	2	11	2	2	1	0
96	361	13	13	13	13	8	8	4	1	1	1	1	1	0	0	3	11	7	2	0
96	361884	1	1	1	1	1	1	1	0	0	0	0	0	0	0	1	1	0	0	0
96	361885	4	4	4	4	2	2	1	0	0	1	1	1	0	0	0	1	0	0	0
96	361887	5	5	5	5	2	2	2	0	0	0	0	1	0	0	1	9	0	0	0
96	362	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0
96	363	24	24	24	24	17	17	12	0	0	0	1	7	0	0	6	2	2	0	0
96	363782	16	16	16	16	11	11	8	0	0	0	1	6	0	0	3	3	1	1	0
96	363884	6	6	6	6	4	4	3	0	0	0	1	1	1	0	3	0	0	0	0
96	363885	2	2	2	2	2	2	1	0	0	0	0	0	0	0	1	0	0	0	0
96	364	1	1	1	1	1	1	1	0	0	0	1	0	0	0	1	0	0	0	0
96	365	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	369	14	14	14	14	9	9	7	1	1	0	1	1	1	1	5	2	0	0	0
96	371	3	3	3	3	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	372	104	104	104	104	67	67	2	33	33	13	13	26	3	3	10	72	44	41	24
96	372868	101	101	101	101	66	66	1	33	33	13	13	26	3	3	10	72	44	41	24
96	373	8	8	8	8	6	6	0	3	3	2	2	1	1	1	0	0	0	0	0
96	375	16	16	16	16	10	10	3	6	6	1	1	1	1	1	1	0	0	0	0

SMSA 4560

REPORT NO MA5-62

MONTHLY YEAR TO DATE

FOR PERIOD ENDING 03/31/78

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS AVAILABLE	C	D	E	F	G	H	I	J	K	L	M	N	NONAGRICULTURAL OPENINGS
A	375268	11	8	3	4	1	0	0	0	1	0	0	0	0	0
96	376	3	2	1	0	0	0	0	0	0	0	1	0	0	0
96	379	23	14	1	6	7	4	4	1	3	6	4	39	2	0
96	381	192	115	26	26	46	34	34	12	56	56	13	29	23	11
96	382	49	30	2	6	11	6	6	3	11	39	14	21	3	0
96	382884	46	28	1	5	11	5	5	3	11	39	14	21	3	0
96	388	1	1	0	1	0	1	1	0	0	0	0	0	0	0
96	389	4	2	0	1	0	0	0	0	2	2	0	2	0	0
96	401	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	403	1	1	0	0	0	1	1	1	0	0	0	0	0	0
96	404	5	5	1	0	0	1	1	2	3	0	0	1	0	0
96	405	6	3	3	0	0	1	1	3	3	0	0	0	0	0
96	406	6	4	1	0	2	1	1	1	3	0	0	0	0	0
96	406884	3	3	0	0	1	0	0	1	3	0	0	0	0	0
96	406887	3	1	0	0	1	0	0	1	3	0	0	0	0	0
96	407	75	50	2	8	17	9	9	1	6	2	0	1	3	1
96	407884	17	11	1	1	3	2	2	0	1	2	0	0	2	0
96	407887	28	17	1	3	6	4	4	1	2	0	0	1	1	0
96	409	2	2	0	1	0	0	0	0	1	0	0	0	0	0
96	411	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	412	1	1	0	0	1	0	0	0	1	0	0	0	0	0
96	421	4	1	0	0	1	1	1	1	1	0	0	0	0	0
96	424	7	7	0	3	0	1	1	0	2	0	0	0	0	0
96	429	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	441	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	465	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	500	13	6	1	1	2	0	0	1	2	1	1	1	1	0
96	501	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	502	2	2	1	0	0	0	0	0	0	0	0	0	0	0
96	503	4	3	1	1	0	0	0	0	1	1	1	1	0	0
96	504	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	505	4	3	0	1	2	0	0	1	0	1	0	0	0	0
96	509	3	1	0	0	0	1	1	0	0	0	0	0	0	0
96	509886	2	0	0	0	0	0	0	0	0	0	0	0	0	0
96	513	2	1	0	1	0	1	1	0	0	0	0	0	0	0
96	514	2	1	0	0	0	0	0	0	0	0	0	0	0	0
96	518	2	1	0	1	0	1	1	0	1	0	0	0	0	0
96	518381	2	2	0	1	0	1	1	0	0	0	0	0	0	0
96	519	4	2	0	0	0	0	0	0	0	0	0	0	0	0
96	520	5	5	1	1	0	2	2	1	2	0	0	0	0	0
96	521	2	2	2	1	0	0	0	0	0	0	0	0	0	0
96	524	1	1	1	0	0	0	0	0	0	0	0	0	0	0
96	525	3	2	0	0	0	0	0	0	0	0	0	0	0	0
96	525887	1	1	0	0	0	0	0	0	0	0	0	0	0	0

TABLE 96

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

MASSACHUSETTS

TABLE 96

SMSA 4560

03/31/78

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS AVAILABLE	C	D	E	F	G	H	I	J	K	L	M	N	0
96	526	23	15	1	0	5	3	1	1	0	4	5	0	2	0
96	526884	2	1	0	0	0	1	0	0	0	1	1	0	1	0
96	526885	3	3	0	0	0	1	0	0	0	1	0	0	0	0
96	526886	6	4	0	0	3	0	0	0	0	1	0	0	0	0
96	529	9	8	5	1	1	2	2	0	0	4	0	0	0	0
96	529687	2	2	2	1	0	0	1	0	0	1	0	0	0	0
96	529886	3	2	2	0	1	1	0	0	0	1	0	0	0	0
96	539	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	550	12	8	0	0	1	2	0	0	0	3	0	0	0	0
96	552	2	2	0	0	1	0	0	0	0	0	0	0	0	0
96	554	2	0	0	0	0	0	0	0	0	0	0	0	0	0
96	555	1	1	0	0	0	0	0	0	0	0	0	0	0	0
96	556	19	13	6	0	0	0	0	0	0	0	0	0	0	0
96	556782	12	8	4	0	0	3	1	1	2	4	31	8	11	0
96	556885	4	2	1	0	0	0	0	0	0	0	5	5	10	0
96	557	8	4	3	1	1	0	1	1	1	1	25	3	8	0
96	558	5	3	1	1	2	0	0	0	0	0	0	0	0	0
96	559	31	18	4	1	3	5	3	0	2	7	0	0	0	0
96	559782	13	7	1	1	1	2	2	1	0	4	6	2	2	0
96	569	3	1	0	0	0	0	0	0	0	0	0	0	0	0
96	570	3	2	0	0	0	0	0	0	0	0	0	0	0	0
96	573	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	575	5	4	0	0	0	0	0	0	0	0	0	0	0	0
96	579	10	9	1	0	0	4	0	2	1	1	3	0	0	0
96	580	5	4	2	0	1	0	0	1	0	0	3	0	3	0
96	581	2	1	0	0	0	0	0	0	0	0	0	0	0	0
96	582	13	10	0	0	2	3	3	3	3	2	6	2	2	0
96	583	8	4	2	0	0	0	0	0	0	0	4	0	0	0
96	584	2	1	0	0	0	0	0	0	0	0	1	0	0	0
96	585	5	3	0	0	0	0	0	0	0	0	0	0	0	0
96	587	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	589	19	13	0	0	0	0	0	0	0	0	0	0	0	0
96	589885	1	1	0	0	1	2	0	0	0	0	10	1	6	0
96	590	7	4	0	0	0	0	0	0	0	0	0	0	0	0
96	599	3	2	1	0	1	1	0	0	0	0	5	0	0	0
96	600	42	22	3	3	8	5	4	3	2	4	2	0	0	0
96	600280	31	17	0	0	6	1	1	0	0	0	2	0	0	0
96	600380	9	5	0	0	2	1	0	0	0	0	4	0	0	0
96	601	5	3	0	0	0	0	0	0	0	0	1	0	0	0
96	601280	4	3	0	0	0	0	0	0	0	0	4	0	0	0
96	602	1	1	0	0	1	0	0	0	0	0	1	0	0	0
96	603	4	0	0	0	0	0	0	0	0	0	0	0	0	0
96	603280	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	603782	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	603782	2	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78SMSA 4560
REPORT NO MA5-62

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED APPS	TOTAL FEMALE	VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	TOTAL RECEIV- ED	MANDA- TORY OPENING	OPENING RECEIV- ED	UNFILLED OPEN	TOTAL .30 DAYS OR MORE
96	603885	1	0	0	0	0	0	0	0	0	0	0
96	604	6	5	2	2	0	1	1	0	0	1	0
96	604380	4	3	0	0	0	0	1	0	0	1	0
96	604885	2	2	0	0	0	0	1	0	0	0	0
96	605	2	1	0	0	0	0	0	0	0	0	1
96	605885	1	0	0	0	0	0	0	0	0	0	1
96	606	17	8	0	0	0	0	11	5	3	8	0
96	606782	16	8	0	0	0	0	11	5	3	8	0
96	606885	1	0	0	0	0	0	0	0	0	0	0
96	607	3	1	0	0	0	0	1	0	0	0	0
96	609	31	21	7	4	2	0	8	6	1	5	0
96	609380	0	0	0	0	0	0	0	0	0	0	0
96	609884	3	2	0	0	0	0	0	0	0	0	0
96	609885	18	12	2	1	1	0	5	5	2	4	0
96	612	2	2	1	0	0	0	0	0	0	0	0
96	614	3	3	0	0	0	0	0	0	0	0	0
96	615	10	6	1	1	1	0	1	0	0	0	0
96	615782	10	6	1	1	1	0	2	0	0	0	0
96	616	75	48	10	4	1	0	12	13	34	2	1
96	617	3	2	0	0	0	0	0	6	1	5	0
96	617885	0	0	0	0	0	0	0	0	0	0	0
96	619	76	55	17	6	15	0	21	6	1	5	5
96	619885	59	46	14	6	12	0	17	8	12	4	1
96	620	179	116	40	28	15	0	34	10	27	8	3
96	620281	133	86	21	14	5	0	59	24	15	20	18
96	620381	34	22	7	4	1	0	42	9	15	3	16
96	620884	8	6	0	3	0	0	8	1	5	1	1
96	621	17	10	0	8	3	0	0	0	6	0	0
96	621281	14	8	0	4	3	0	0	0	0	0	0
96	621884	1	1	0	1	0	0	0	0	0	0	0
96	625	7	6	0	0	0	0	1	1	0	0	1
96	625281	7	6	0	6	0	0	3	1	0	1	1
96	626	2	1	0	1	0	0	0	0	0	0	0
96	628	1	1	0	0	0	0	0	0	0	0	0
96	630	2	1	0	0	0	0	1	0	0	0	0
96	633	4	3	1	1	0	0	4	1	3	1	1
96	633281	4	3	1	1	0	0	3	0	2	0	0
96	637	10	5	0	2	0	0	0	0	0	0	0
96	637281	7	3	0	1	0	0	0	0	0	0	0
96	637884	2	2	0	0	0	0	0	0	0	0	0
96	637887	1	0	0	0	0	0	0	0	0	0	0
96	638	42	25	0	12	4	0	22	2	14	3	3
96	638281	38	22	0	10	4	0	18	2	10	2	2
96	638884	1	0	0	0	0	0	4	0	4	0	0

TABLE 30
APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

[illegible]

SMSA 4560
REPORT NO MA5-62

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

APPLICANTS AND NONAGRICULTURAL JOB OPENINGS BY OCCUPATION

ITEM NO	OCCUPATIONAL CODE	ACTIVE FILE										NONAGRICULTURAL OPENINGS									
		TOTAL REGIS- TERED APPS		TOTAL FEMALE		VETERAN		AGE GROUPS		MINOR- ITY		ECONOM- ICALLY DISAD- VANT- AGED		TOTAL RECEIV- ED		MANDA- TORY OPENING		UNFILLED OPEN			
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
96	692			9	6		3	2	2	0	0	0	9	9	1		0	4			
96	699			25	14		5	4	4	2	4	7	8	2	5		0	0			
96	701			13	12		6	5	1	1	0	0	0	0	0		0	0			
96	704			4	3		0	0	1	0	1	1	0	0	0		0	0			
96	705			11	4		0	2	1	0	0	0	10	0	8		0	0			
96	705884			11	4		0	2	2	0	0	0	10	0	8		0	0			
96	706			48	31		27	6	4	4	0	14	1	0	0		0	0			
96	706884			38	25		22	4	4	2	0	12	1	0	0		0	0			
96	706887			8	5		4	1	1	2	0	2	0	0	0		0	0			
96	709			3	3		1	1	1	0	0	2	1	1	1		0	0			
96	710			12	9		3	3	2	2	1	2	3	3	1		0	0			
96	711			4	1		0	1	1	0	0	0	0	0	0		0	0			
96	712			7	4		1	1	0	0	0	0	2	0	2		0	0			
96	713			2	1		1	0	0	0	0	0	0	0	0		0	0			
96	714			3	2		0	1	1	0	0	1	3	2	1		1	0			
96	715			0	0		0	0	0	0	0	0	0	0	0		0	0			
96	716			1	1		1	0	0	0	1	1	0	0	0		0	0			
96	719			2	2		1	0	0	0	0	1	0	0	0		0	0			
96	720			16	9		3	2	2	4	0	4	15	0	2		1	0			
96	720281			11	6		1	3	2	0	0	3	0	0	1		0	0			
96	721			2	1		0	0	0	0	0	0	0	0	0		0	0			
96	722			3	3		0	0	0	0	0	0	0	0	0		0	0			
96	723			17	12		8	0	0	0	2	6	4	0	2		1	0			
96	723884			17	12		8	0	0	0	2	6	4	0	0		0	0			
96	724			10	6		4	2	0	0	1	3	6	2	0		3	1			
96	725			4	3		2	0	0	1	0	3	6	6	6		3	3			
96	726			434	305		241	77	35	15	117	146	73	0	0		0	0			
96	726781			303	212		173	64	22	12	90	105	54	73	58		77	24			
96	726884			48	36		28	6	4	2	11	15	7	64	47		53	15			
96	727			3	3		1	0	1	0	1	15	4	7	4		6	0			
96	728			9	6		5	0	2	0	3	0	0	0	0		0	0			
96	729			43	30		16	0	7	1	12	10	8	0	0		0	0			
96	729381			17	11		5	5	3	0	4	6	3	8	5		5	2			
96	729884			13	10		6	0	4	0	4	6	5	2	4		1	1			
96	729887			6	3		3	0	0	0	3	0	0	0	0		0	0			
96	731			1	0		0	0	0	0	0	8	0	0	0		0	0			
96	733			1	1		1	1	1	0	0	0	0	0	1		0	0			
96	734			3	2		2	0	0	0	0	0	0	0	0		0	0			
96	735			1	1		0	0	0	0	1	0	0	0	0		0	0			
96	737			0	0		0	0	0	0	0	0	0	0	0		0	0			
96	739			16	13		10	5	3	0	0	1	1	1	1		0	0			
96	739887			11	10		8	5	3	2	4	5	2	4	4		3	1			
96	740			9	8		0	3	2	0	1	3	0	0	1		0	0			
96	741			17	9		1	4	1	2	4	10	1	1	4		4	2			

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS- TERED	TOTAL FEMALE	VETERAN	AGE GROUPS	MINOR- ITY	ECONOM- ICALLY DISAD- VANT- AGED	TOTAL RECEIV- ED	TOTAL MANDA- TORY	OPENING RECEIV- ED	OPENING RECEIV- ED	L	M	N	O
					UNDER 22	45 AND OLDER									
96	806381	2	2	0	1	0	0	0	0	0	0	0	0	0	0
96	806781	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	806884	2	1	0	1	0	0	0	0	0	0	0	0	0	0
96	806887	3	2	0	1	1	0	0	0	0	0	0	0	0	0
96	807	47	36	1	13	5	0	5	4	0	0	0	0	2	1
96	807381	37	27	1	9	4	0	5	4	0	0	0	0	2	1
96	809	9	7	1	1	3	0	1	0	0	0	0	0	7	0
96	809381	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	809884	3	3	1	0	1	0	1	0	0	0	0	0	0	0
96	809887	1	1	0	1	0	0	0	0	0	0	0	0	0	0
96	810	51	33	1	14	6	1	10	3	0	0	0	0	2	1
96	810884	49	31	0	13	5	1	10	2	0	0	0	0	1	0
96	811	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	812	8	5	0	0	0	0	0	0	0	0	0	0	0	0
96	812884	8	5	0	0	1	0	3	2	0	0	0	0	0	0
96	814	3	2	0	0	1	0	1	2	0	0	0	0	0	0
96	816	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	819	3	3	0	0	0	0	0	0	0	0	0	0	0	0
96	820	2	2	1	1	0	0	0	0	0	0	0	0	0	0
96	821	2	2	0	0	0	0	0	0	0	0	0	0	0	0
96	822	8	7	0	1	1	0	1	0	0	0	0	0	0	0
96	822281	5	4	0	1	0	0	1	0	0	0	0	0	0	0
96	823	7	5	0	0	0	0	0	0	0	0	0	0	0	0
96	824	37	37	0	14	8	0	11	4	0	0	0	0	0	0
96	824281	59	35	0	13	6	0	11	11	0	0	0	0	3	2
96	825	6	3	0	0	0	0	0	0	0	0	0	0	0	0
96	825381	2	0	0	0	0	0	0	0	0	0	0	0	0	0
96	826	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	827	9	8	0	4	0	0	3	0	0	0	0	0	0	0
96	827281	3	3	0	0	0	0	1	0	0	0	0	0	0	0
96	828	7	4	0	1	1	0	0	0	0	0	0	0	0	0
96	828281	7	4	0	1	1	0	0	0	0	0	0	0	0	0
96	829	37	27	0	15	6	0	10	10	0	0	0	0	0	0
96	829281	12	8	0	1	3	0	1	0	0	0	0	0	0	0
96	829887	20	13	0	7	3	0	0	0	0	0	0	0	0	0
96	840	134	89	1	26	10	0	20	21	0	0	0	0	5	3
96	840781	75	52	0	12	4	0	11	15	0	0	0	0	6	4
96	841	7	7	0	16	2	0	3	12	0	0	0	0	4	0
96	842	41	33	0	3	5	0	16	0	0	0	0	0	0	0
96	842884	30	24	0	3	3	0	9	0	0	0	0	0	0	0
96	844	39	31	0	6	2	0	6	9	0	0	0	0	0	0
96	844884	30	23	0	2	2	0	5	4	0	0	0	0	0	0
96	849	2	1	0	0	1	0	1	0	0	0	0	0	0	0
96	850	12	8	0	4	4	0	4	1	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

ITEM NO	OCCUPATIONAL CODE	TOTAL REGIS-TERED APPS	AVAILABLE	TOTAL	FEMALE	VETERAN	AGE GROUPS	MINORITY	ECONOM-ICALLY DISAD-VANT-AGED	J	K	L	M	N	O
							UNDER 22	22-45	45 AND OLDER						
96	850883	8	7	0	4	0	0	4	1	1	3	0	0	0	0
96	850887	4	1	0	0	0	0	0	1	1	1	1	0	0	0
96	851	3	3	0	0	0	0	0	0	0	0	0	0	0	0
96	852	3	3	0	0	0	0	1	0	0	0	0	0	0	0
96	853	22	18	0	4	0	0	2	0	2	2	0	0	0	0
96	859	35	28	0	11	11	2	5	0	0	0	0	0	0	0
96	859883	33	27	0	11	11	1	5	0	2	0	0	0	0	0
96	860	292	203	2	53	49	2	25	0	43	69	0	0	0	0
96	860281	5	4	0	3	1	0	1	0	1	1	1	18	47	0
96	860381	184	127	1	33	36	0	19	0	22	64	0	0	0	0
96	860887	45	27	0	4	8	0	0	0	13	15	0	17	45	0
96	861	67	56	0	17	10	0	4	0	13	10	0	0	0	0
96	861381	37	31	0	8	2	0	1	0	5	10	0	6	5	0
96	861884	2	2	0	1	1	0	0	0	1	1	0	4	5	0
96	861887	15	12	0	4	6	0	1	0	4	4	0	0	0	0
96	862	95	61	1	23	13	0	14	0	15	8	0	1	0	0
96	862281	7	2	0	2	0	0	1	0	1	2	0	1	0	0
96	862381	64	41	0	16	6	0	9	0	10	5	0	3	0	0
96	862884	19	14	0	2	1	0	2	0	3	0	0	0	0	0
96	862887	3	2	0	1	1	0	1	0	0	1	0	0	0	0
96	863	19	16	0	2	1	0	2	0	0	1	0	0	0	0
96	863884	17	14	0	1	7	0	2	0	4	1	0	0	0	0
96	864	6	5	0	4	6	0	2	0	4	1	0	0	0	0
96	865	4	4	0	1	0	0	0	0	1	1	0	0	0	0
96	866	63	51	1	14	14	0	5	0	14	5	0	2	0	0
96	866381	51	41	1	13	11	0	5	0	9	3	0	0	0	0
96	866884	2	1	0	0	1	0	0	0	1	0	0	0	0	0
96	866887	10	9	0	0	2	0	0	0	4	2	0	0	0	0
96	869	433	303	2	74	100	0	33	0	87	275	2	302	11	0
96	869884	131	105	1	28	31	0	9	0	23	8	0	12	0	0
96	869887	292	189	1	43	67	0	24	0	63	260	0	274	9	0
96	891	11	9	1	1	2	0	3	0	1	0	0	0	0	0
96	892	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	899	94	61	1	31	5	0	17	0	21	22	0	0	0	0
96	899281	19	17	0	12	0	0	5	0	3	4	0	13	4	0
96	899381	53	33	0	17	0	0	10	0	12	18	0	2	2	0
96	899884	12	5	0	0	1	0	0	0	4	0	0	11	2	0
96	902	3	3	0	0	0	0	0	0	1	2	0	0	0	0
96	902883	3	3	0	2	0	0	0	0	1	0	0	0	0	0
96	903	1	0	0	2	0	0	0	0	1	0	0	0	0	0
96	904	62	40	0	25	0	0	0	0	8	1	0	0	0	0
96	904883	61	40	0	25	1	0	5	0	8	1	0	1	0	0
96	905	167	120	4	54	12	0	14	0	30	21	0	18	2	0
96	905883	154	111	3	51	8	0	13	0	28	21	3	18	2	0

SMSA 4560

REPORT NO MA5-62

MONTHLY YEAR TO DATE

FOR PERIOD ENDING 03/31/78

-103-

ITEM NO	OCCUPATIONAL CODE	ACTIVE FILE										NONAGRICULTURAL OPENINGS									
		TOTAL REGIS- TERED APPS AVAILABLE	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V
96	906	91	63	1	26	14	7	1	22	12	2	7	1	0	0	0	0	0	0	0	0
96	906883	91	63	1	26	14	7	1	22	12	2	7	1	0	0	0	0	0	0	0	0
96	909	21	14	0	26	14	7	1	22	12	2	7	1	0	0	0	0	0	0	0	0
96	909883	5	3	0	0	2	2	0	3	8	0	3	1	0	0	0	0	0	0	0	0
96	910	6	4	0	0	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
96	911	1	0	0	2	1	1	1	1	4	2	24	0	0	0	0	0	0	0	0	0
96	912	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	913	70	37	19	4	1	1	3	16	15	2	7	4	0	0	0	0	0	0	0	0
96	913463	58	32	18	2	2	4	3	15	13	2	7	4	0	0	0	0	0	0	0	0
96	914	3	3	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
96	915	59	38	0	9	21	3	2	16	18	1	6	5	0	0	0	0	0	0	0	0
96	915867	44	27	0	6	14	3	2	13	8	1	5	1	0	0	0	0	0	0	0	0
96	915884	4	3	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
96	915887	4	2	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
96	919	19	11	2	1	5	3	0	3	3	0	1	1	0	0	0	0	0	0	0	0
96	919883	6	5	1	0	3	1	0	2	1	0	0	0	0	0	0	0	0	0	0	0
96	919887	5	2	0	0	2	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0
96	920	406	263	191	11	69	71	30	108	72	7	39	33	0	0	0	0	0	0	0	0
96	920884	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	920885	45	31	18	2	10	8	6	7	16	1	5	14	0	0	0	0	0	0	0	0
96	920886	0	0	0	0	0	0	0	0	3	3	3	0	0	0	0	0	0	0	0	0
96	920887	352	226	170	7	59	61	24	100	53	3	31	19	0	0	0	0	0	0	0	0
96	921	18	16	1	7	3	7	0	0	1	0	1	0	0	0	0	0	0	0	0	0
96	921883	12	11	0	5	2	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0
96	922	239	140	10	34	38	12	14	40	40	0	26	6	0	0	0	0	0	0	0	0
96	922883	96	64	2	17	12	6	7	17	17	0	11	1	0	0	0	0	0	0	0	0
96	922887	137	73	8	17	24	6	6	22	21	0	13	5	0	0	0	0	0	0	0	0
96	929	497	282	36	36	150	25	30	75	145	60	93	26	0	0	0	0	0	0	0	0
96	929887	474	269	36	33	148	22	29	74	143	60	92	26	0	0	0	0	0	0	0	0
96	930	7	4	1	0	2	1	0	1	1	0	0	1	0	0	0	0	0	0	0	0
96	932	1	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	939	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	939887	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	941	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	950	7	6	0	3	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	951	11	5	0	4	0	1	0	1	1	1	1	1	0	0	0	0	0	0	0	0
96	952	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	953	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	954	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	955	2	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	957	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	959	4	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	960	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	962	2	2	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
96	962	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

MONTHLY YEAR TO DATE
FOR PERIOD ENDING 03/31/78

PROFESSIONAL, TECHNICAL, AND MANAGERIAL WORK

00,01 ARCHITECTURE AND ENGINEERING

001 Architecture
 002 Aeronautical engineering
 003 Electrical engineering
 005 Civil engineering
 006 Ceramic engineering
 007 Mechanical engineering
 008 Chemical engineering
 010 Mining and petroleum engineering
 011 Metallurgy and metallurgical engineering
 012 Industrial engineering
 013 Agricultural engineering
 014 Marine engineering
 015 Nuclear engineering
 017 Drafting and related work
 018 Surveying and related work
 019 Architecture and engineering, n.e.c.

02 MATHEMATICS AND PHYSICAL SCIENCES

020 Mathematics
 021 Astronomy
 022 Chemistry
 023 Physics
 024 Geology
 025 Meteorology
 029 Mathematics and physical sciences, n.e.c.

04 LIFE SCIENCES

040 Agricultural sciences
 041 Biological sciences
 045 Psychology
 049 Life sciences, n.e.c.

05 SOCIAL SCIENCES

050 Economics
 051 Political science
 052 History
 054 Sociology
 055 Anthropology
 059 Social sciences, n.e.c.

07 MEDICINE AND HEALTH

070 Medicine and surgery
 071 Osteopathy
 072 Dentistry
 073 Veterinary medicine and surgery
 074 Pharmacy
 075 Nursing
 077 Dietetic work
 078 Medical and dental technology
 079 Medicine and health, n.e.c.

09 EDUCATION

090 College and university education
 091 Secondary school education
 092 Primary school and kindergarten education
 094 Education of the handicapped
 096 Home economics, agriculture, and related education
 097 Vocational education, n.e.c.
 099 Education, n.e.c.

10 MUSEUM, LIBRARY, AND ARCHIVAL SCIENCES

100 Library work
 101 Archival science work
 102 Museum and related work
 109 Museum, library, and archival sciences, n.e.c.

11 LAW AND JURISPRUDENCE

110 Legal work
 111 Judicial work
 119 Law and jurisprudence, n.e.c.

12 RELIGION AND THEOLOGY

120 Ministerial work
 129 Religion and theology, n.e.c.

13 WRITING

130 Freelance writing
 131 Writing and editing, motion pictures, radio and TV
 132 Writing and editing, publications
 137 Interpreting and translating
 139 Writing, n.e.c.

14 ART

141 Commercial art
 142 Designing
 143 Photography
 144 Painting and related work
 148 Sculpturing and related work
 149 Art work, n.e.c.

15 ENTERTAINMENT AND RECREATION

150 Dramatics
 151 Dancing
 152 Music
 153 Athletics and sports
 159 Entertainment and recreation, n.e.c.

16 ADMINISTRATIVE SPECIALIZATIONS

160 Accounting and auditing
 161 Budget and management analysis
 162 Purchasing management
 163 Sales and distribution management
 164 Advertising management
 165 Public relations management
 166 Personnel and training administration
 168 Inspecting and investigating, managerial and pub. serv.
 169 Administrative specialties, n.e.c.

18 MANAGERS AND OFFICIALS, N.E.C.

180 Agriculture, forestry, and fishing management
 181 Mining management
 182 Construction management
 183 Manufacturing industry management
 184 Transportation, communication, and utilities, mgt.
 185 Wholesale and retail trade management
 186 Finance, insurance, and real estate management
 187 Service industry management
 188 Public administration management
 189 Miscellaneous managerial work, n.e.c.

19 PROFESSIONAL, TECHNICAL, & MANAGERIAL

- 191 Business relations work, n.e.c.
- 193 Radio operating
- 194 Sound recording, transcribing, & reproducing
- 195 Social and welfare work
- 196 Airplane piloting & navigating
- 197 Managerial & technical work, water transportation
- 198 Managerial work, railroad transportation
- 199 Misc. prof., tech., & managerial work, n.e.c.

CLERICAL AND SALES WORK

20 STENOGRAPHY, TYPING, FILING & RELATED OCCUPATIONS

- 201 Secretarial work
- 202 Stenography
- 203 Typing
- 204 Correspondence work
- 205 Personnel work
- 206 Filing
- 207 Duplicating-machine work
- 208 Miscellaneous office machine work
- 209 Stenography, typing, filing, & related work, n.e.c.

21 COMPUTING & ACCOUNT-RECORDING

- 210 Bookkeeping
- 211 Cashiering
- 212 Teller service
- 213 Automatic data processing
- 214 Billing-machine work
- 215 Bookkeeping-machine work
- 216 Computing-machine work
- 217 Account-recording-machine work, n.e.c.
- 219 Computing & account recording, n.e.c.

22 MATERIAL & PRODUCTION RECORDING

- 221 Clerical work, production
- 222 Clerical work, shipping and receiving
- 223 Stock checking & related work
- 224 Weighing
- 229 Material & production recording, n.e.c.

23 INFORMATION & MESSAGE DISTRIBUTION

- 230 Messenger and related work
- 231 Mail sorting, stamping, recording, routing, & rel. work
- 232 Clerical work, post office
- 233 Mail delivery
- 234 Mail-preparing & mail-handling-machine work
- 235 Telephone work
- 236 Telegraph work
- 237 Reception & information dispensing work
- 239 Information & message distribution, n.e.c.

24 MISCELLANEOUS CLERICAL

- 240 Collecting
- 241 Adjusting
- 242 Hotel desk work, n.e.c.
- 243 Clerical work, direct service, n.e.c.
- 249 Miscellaneous clerical work, n.e.c.

25 SALES AGENTS, SERVICES

- 250 Saleswork, real estate and insurance
- 251 Saleswork, securities
- 252 Saleswork, business and financial services
- 253 Saleswork, radio and television broadcasting services
- 254 Saleswork, hotel services
- 255 Saleswork, transportation services
- 256 Saleswork, maintenance and repair services
- 257 Saleswork, utilities
- 258 Saleswork, printing and advertising
- 259 Saleswork, services, n.e.c.

26, 27, 28 SALES AGENTS AND SALESPERSONS, COMMODITIES

- 260 Saleswork, horticultural and nursery products
- 261 Saleswork, agricultural products, n.e.c.
- 262 Saleswork, foodstuffs, beverages, and tobacco
- 263 Saleswork, textiles, textile products, and apparel
- 264 Saleswork, leather and leather products
- 265 Saleswork, paper and paper products
- 266 Saleswork, chemicals and drug preparations
- 267 Saleswork, fuel and petroleum products
- 268 Saleswork, plastics products
- 270 Saleswork, rubber products
- 271 Saleswork, stone, clay, and glass products
- 273 Saleswork, metal and metal products
- 274 Saleswork, housefurnishings
- 275 Saleswork, hotels and restaurant equipment and supplies
- 276 Saleswork, industrial, construction, mining and drilling equipment and supplies
- 277 Saleswork, farm and garden equipment and supplies
- 278 Saleswork, household appliances and electrical machinery, equipment, and supplies
- 280 Saleswork, transportation equipment
- 281 Saleswork, business and commercial machines, equipment, and supplies
- 282 Saleswork, medical and dental equipment, supplies and appliances
- 283 Saleswork, jewelry and silverware
- 284 Saleswork, scientific apparatus
- 285 Saleswork, photographic equipment and supplies
- 286 Saleswork, amusement and sporting goods
- 287 Saleswork, music and musical instruments
- 289 Saleswork, commodities, n.e.c.

29 MERCHANDISING OCCUPATIONS, EXCEPT SALES AGENTS

- 290 Sales clerking
- 291 Peddling
- 292 Route work
- 293 Canvassing and soliciting
- 294 Auctioneering
- 296 Shopping
- 297 Demonstrating and modeling
- 298 Display work
- 299 Miscellaneous merchandising work, n.e.c.

SERVICES

30 DOMESTIC SERVICE

- 301 Day work
- 302 Laundry work, private family
- 303 Housekeeping, private family
- 304 Caretaker and yard work
- 305 Domestic cooking

306 Housework, domestic
 307 Child monitor
 309 Domestic services, n.e.c.

31 FOOD AND BEVERAGE PREPARATION AND SERVICE

310 Food and beverage service, except ship steward/stewardess
 311 Food serving
 312 Bartending
 313 Cooking, large hotels and restaurants
 314 Cooking, small hotels and restaurants
 315 Miscellaneous cooking, except domestic
 316 Meat cutting, except in slaughtering and packing houses
 317 Miscellaneous food and beverage preparation
 318 Kitchen work, n.e.c.
 319 Food and beverage preparation and service, n.e.c.

32 LODGING AND RELATED SERVICE

320 Boardinghouse and lodginghouse keeping
 321 Housekeeping, hotels and institutions
 323 Cleaning & related services, hotels, restaurants,
 and related establishments
 324 Bellhop and related services
 329 Lodgings and related services, n.e.c.

33 BARBERING, COSMETOLOGY, AND RELATED SERVICE

330 Barbering and related services
 331 Manicuring
 332 Beautician services
 333 Make-up, theatrical
 334 Masseur and related services
 335 Bath attendant work
 338 Embalming
 339 Barbering, cosmetology, and related service, n.e.c.

34 AMUSEMENT AND RECREATION SERVICE

340 Bowling alley and billiard parlor services
 341 Golf course, tennis court, skating rink, & rel. serv.
 342 Amusement device and concession work
 343 Gambling hall services
 344 Ushering
 346 Wardrobe and dressing-room services
 349 Amusement and recreation services, n.e.c.

35 MISCELLANEOUS PERSONAL SERVICE

350 Ship steward/stewardess service
 351 Rail passenger service
 352 Host/hostess and steward/stewardess service, n.e.c.
 353 Guide service, except hunting and fishing
 354 Unlicensed birth attendant and practical nursing serv.
 355 Attendant work, hosps., morgues, & rel. health serv.
 356 Animal care, n.e.c.
 357 Baggage porter service
 358 Checkroom, locker room, and restroom services
 359 Miscellaneous personal services, n.e.c.

36 APPAREL & FURNISHINGS SERVICE

361 Laundering service
 362 Dry cleaning service
 363 Pressing service
 364 Dyeing & related services
 365 Shoe & luggage repair & related services
 366 Shoe shining & related services
 369 Apparel & furnishings services, n.e.c.

37 PROTECTIVE SERVICE

371 Bridge tending & crossing guard services
 372 Guard and related services
 373 Fire protection service
 375 Police & related work, public service
 376 Police & related work, except in public service
 377 Law enforcement work, n.e.c.
 378 Military service
 379 Protective services, n.e.c.

38 BUILDING AND RELATED SERVICE

381 Cleaning and related services
 382 Janitorial services
 388 Elevator services
 389 Building and related services, n.e.c.

FARMING, FISHERY, FORESTRY, & RELATED WORK

40 PLANT FARMING

401 Grain farming
 402 Cotton farming
 403 Vegetable farming
 404 Fruit and nut farming
 405 Crop specialty farming
 406 Horticultural specialty work
 407 Gardening & groundskeeping
 409 Plant farming, n.e.c.

41 ANIMAL FARMING

411 Dairy farming
 412 Poultry farming
 413 Livestock farming
 419 Animal farming, n.e.c.

42 MISCELLANEOUS FARMING & RELATED

421 General farming
 422 Farm irrigation
 423 Farm couples
 424 Farm machinery operating, n.e.c.
 429 Miscellaneous farming & related work, n.e.c.

43 FISHERY AND RELATED

431 Net, seine, and trap fishing
 432 Line fishing
 433 Fishing, miscellaneous gear
 435 Whaling
 436 Marine life cultivation & related work
 437 Sponge & seaweed gathering
 439 Fishery & related work, n.e.c.

44	FORESTRY
441	Forest conservation work
442	Forest products production, except logging
449	Forestry, n.e.c.
45	HUNTING, TRAPPING AND RELATED
451	Hunting and trapping
452	Guide services, hunting and fishing
46	AGRICULTURE SERVICE
461	Cotton ginning and compressing
465	Blight and pest control and bindweed eradicator
466	Animal care
467	Animal science services
469	Agricultural services, n.e.c.
	<u>PROCESSING</u>
50	PROCESSING OF METAL
500	Electroplating
501	Dip plating
502	Melting, pouring, casting, and related work
503	Pickling, cleaning, degreasing, and related work
504	Heat treating
505	Metal spraying, coating, and related work
509	Metal processing, n.e.c.
51	ORE REFINING AND FOUNDRY
510	Mixing and related work
511	Separating, filtering, and related work
512	Melting
513	Roasting
514	Pouring and casting
515	Crushing and grinding
518	Molding, coremaking, and related work
519	Ore refining and foundry work, n.e.c.
52	PROCESSING OF FOOD, TOBACCO AND RELATED PRODUCTS
520	Mixing, compounding, blending, kneading, shaping, and related work
521	Separating, crushing, milling, chopping, grinding, and related work
522	Culturing, melting, fermenting, distilling saturating, pickling, aging, and related work
523	Heating, rendering, melting, drying, cooling, freezing, and related work
524	Coating, icing, decorating, and related work
525	Slaughtering, breaking, curing, and related work
526	Cooking and baking, n.e.c.
529	Processing, food and related products, n.e.c.
53	PROCESSING OF PAPER AND RELATED MATERIALS
530	Grinding, beating, and mixing
532	Cooking and drying
533	Cooling, bleaching, screening, washing, and rel. work
534	Calendering, sizing, coating, and related work
535	Forming, n.e.c.
539	Processing, paper and related materials, n.e.c.

54	PROCESSING OF PETROLEUM, COAL, NATURAL AND MANUFACTURED GAS AND RELATED PRODUCTS
540	Mixing and blending
541	Filtering, straining, and separating
542	Distilling, subliming, and carbonizing
543	Drying, heating, and melting
544	Grinding and crushing
546	Reacting, n.e.c.
549	Processing, petroleum and related products, n.e.c.
55	CHEMICALS, PLASTICS, SYNTHETICS, RUBBER, PAINT, AND RELATED PRODUCTS
550	Mixing and blending
551	Filtering, straining, and separating
552	Distilling
553	Heating, baking, seasoning, melting, and heat treating
554	Coating, calendering, laminating, and finishing
555	Grinding and crushing
556	Casting and molding, n.e.c.
557	Extruding
558	Reacting, n.e.c.
559	Processing, chemicals and related products, n.e.c.
56	WOOD AND WOOD PRODUCTS
560	Mixing and related work
561	Wood preserving and related work
562	Saturating and related work, n.e.c.
563	Drying, seasoning, and related work
569	Processing, wood and wood products, n.e.c.
57	STONE, CLAY, GLASS, AND RELATED PRODUCTS
570	Crushing, grinding, and mixing
571	Separating
572	Melting
573	Baking, drying, and heat treating
574	Impregnating, coating, and glazing
575	Forming
579	Processing, nonmetallic minerals & rel. products, n.e.c.
58	LEATHER, TEXTILES, AND RELATED PRODUCTS
580	Shaping, blocking, stretching, and tenting
581	Separating, filtering, and drying
582	Washing, steaming, and saturating
583	Ironing, pressing, glazing, staking, calendering, and embossing
584	Mercerizing, coating, and laminating
585	Singeing, cutting, shearing, shaving, and napping
586	Felting and fulling
587	Brushing and shrinking
589	Processing, leather and textiles, n.e.c.
59	PROCESSING OCCUPATIONS, N.E.C.
590	Processing, assorted materials
599	Miscellaneous processing, n.e.c.

MACHINE TRADES

60 METAL MACHINING

600 Machining and related work
 601 Toolmaking and related work
 602 Gear machining
 603 Abrading
 604 Turning
 605 Milling and planing
 606 Boring
 607 Sawing
 609 Metal machining, n.e.c.

61 METALWORKING OCCUPATIONS, N.E.C.

610 Hammer forging
 611 Press forging
 612 Forging, n.e.c.
 613 Sheet and bar rolling
 614 Extruding and drawing
 615 Punching and shearing
 616 Fabricating machine work
 617 Metal forming, n.e.c.
 619 Miscellaneous metalworking, n.e.c.

62, 63 MECHANICS AND MACHINERY REPAIRERS

620 Motorized vehicle and engineering equipment repairing
 621 Aircraft repairing
 622 Rail equipment repairing
 623 Marine equipment repairing
 624 Farm machinery repairing
 625 Engine, power transmission, and rel. equipment rep.
 626 Metalworking machinery repairing
 627 Printing and publishing machinery repairing
 628 Textile machinery and equipment repairing
 629 Special industry machinery repairing
 630 General industry machinery repairing
 631 Powerplant machinery repairing
 632 Ordnance and accessory repairing
 633 Business and commercial machine repairing
 637 Utility equipment repairing
 638 Miscellaneous machine installation and repairing
 639 Mechanical repairing, n.e.c.

64 PAPERWORKING

640 Paper cutting, winding, and related work
 641 Folding, creasing, scoring, and gluing
 642 Paper sewing
 643 Paper corrugating
 644 Paper fastening, n.e.c.
 649 Paperworking, n.e.c.

65 PRINTING

650 Typesetting and composing
 651 Printing press work
 652 Printing machine work
 653 Bookbinding and related work
 654 Typecasting and related work
 659 Printing, n.e.c.

66 WOOD MACHINING

660 Cabinetmaking
 661 Patternmaking
 662 Sanding
 663 Shearing and shaving
 664 Turning
 665 Milling and planing
 666 Boring
 667 Sawing
 668 Chipping
 669 Wood machining, n.e.c.

67 MACHINING STONE, CLAY, GLASS, & RELATED MATERIALS

670 Stonecutting and related work
 673 Abrading and polishing
 674 Turning
 675 Planing and shaping, n.e.c.
 676 Boring and punching
 677 Chipping, cutting, sawing, & related work
 679 Machining, nonmetallic minerals & rel. materials, n.e.c.

68 TEXTILE

680 Carding, combing, drawing, and related work
 681 Twisting, beaming, warping, and related work
 682 Spinning
 683 Weaving and related work
 684 Hosiery knitting
 685 Knitting, except hosiery
 686 Punching, cutting, forming, & related work
 689 Textile machine work, n.e.c.

69 MACHINE TRADES OCCUPATIONS, N.E.C.

690 Plastics, synthetics, rubber, & leather working
 691 Insulated wire & cable fabricating
 692 Fabrication of products from assorted materials
 693 Modelmaking, patternmaking, & related work
 694 Fabrication of ordnance, ammunition, & related products, n.e.c.
 699 Miscellaneous machine work, n.e.c.

BENCH WORK

70 FABRICATION, ASSEMBLY, & REPAIR OF METAL PRODUCTS, N.E.C.

700 Fabrication, assembly, & repair of jewelry, silverware, & related products
 701 Fabrication, assembly, & repair of tools & related products
 703 Sheet-metal products assembly & repair, n.e.c.
 704 Engraving, etching, & related work
 705 Filing, grinding, buffing, cleaning, & polishing, n.e.c.
 706 Metal unit assembling & adjusting, n.e.c.
 709 Fabrication, assembly, & repair of metal products, n.e.c.

- 71 FABRICATION & REPAIR OF SCIENTIFIC & MEDICAL APPARATUS, PHOTOGRAPHIC & OPTICAL GOODS, WATCHES & CLOCKS, & RELATED PRODUCTS
- 710 Fabrication & repair of instruments for measuring, controlling, & indicating physical characteristics
- 711 Fabrication & repair of optical instruments & lenses
- 712 Fabrication & repair of surgical, medical, & dental instruments & supplies
- 713 Fabrication & repair of ophthalmic goods
- 714 Fabrication & repair of photographic equipment and supplies
- 715 Fabrication & repair of watches, clocks & parts
- 716 Fabrication & repair of engineering & scientific instruments & equipment, n.e.c.
- 719 Fabrication & repair of scientific & medical apparatus, photographic & optical goods, watches & clocks, & related products, n.e.c.
- 72 ASSEMBLY & REPAIR OF ELECTRICAL EQUIPMENT
- 720 Assembly & repair of radio & television receiving sets & phonographs
- 721 Assembly & repair of motors, generators, & related products
- 722 Communications equipment assembly & repair
- 723 Assembly & repair of electrical appliances & fixtures
- 724 Winding & assembly of coils, magnets, armatures, & related products
- 725 Assembly of light bulbs & electronic tubes
- 726 Assembly & repair of electronic components & accessories, n.e.c.
- 727 Storage battery assembly
- 728 Fabrication of electrical wire and cable
- 729 Assembly & repair of electrical equipment, n.e.c.
- 73 FABRICATION & REPAIR OF PRODUCTS MADE FROM ASSORTED MATERIALS
- 730 Fabrication & repair of musical instruments & parts
- 731 Fabrication & repair of games and toys
- 732 Fabrication & repair of sporting goods
- 733 Fabrication & repair of pens, pencils, & office & artists' materials, n.e.c.
- 734 Fabrication of notions
- 735 Fabrication & repair of jewelry, n.e.c.
- 736 Fabrication & repair of ordnance & accessories
- 737 Fabrication of ammunition, fireworks, explosives & related products
- 739 Fabrication & repair of products made from assorted materials, n.e.c.
- 74 PAINTING, DECORATING, & RELATED OCCUPATIONS
- 740 Brush painting
- 741 Spray painting
- 742 Staining, waxing, & related work
- 749 Painting, decorating, & related work, n.e.c.
- 75 FABRICATION & REPAIR OF PLASTICS, SYNTHETICS, RUBBER, AND RELATED PRODUCTS
- 750 Fabrication & repair of tires, tubes, tire treads, & related products
- 751 Laying out and cutting, n.e.c.

- 752 Fitting, shaping, cementing, finishing, and rel. wk., n.e.c.
- 753 Fabrication and repair of rubber and plastic footwear
- 754 Fabrication and repair of miscellaneous plastic products
- 759 Fabrication and repair of plastics, synthetics, rubber, and related products, n.e.c.
- 76 FABRICATION AND REPAIR OF WOOD PRODUCTS
- 760 Bench carpentry and related work
- 761 Laying out, cutting, carving, shaping, and sanding, n.e.c.
- 762 Assembly of wood products, n.e.c.
- 763 Fabrication and repair of furniture, n.e.c.
- 764 Cooperage
- 769 Fabrication and repair of wood products, n.e.c.
- 77 FABRICATION AND REPAIR OF SAND, STONE, CLAY, AND GLASS PRODUCTS
- 770 Fabrication and repair of jewelry, ornaments, and related products
- 771 Stone cutting and carving
- 772 Glass blowing, pressing, shaping, and related work, n.e.c.
- 773 Coloring and decorating brick, tile, and related products
- 774 Fabrication and repair of pottery and porcelain ware
- 775 Grinding, filing, polishing, frosting, etching, cleaning, and related work, n.e.c.
- 776 Fabrication and repair of asbestos and polishing products, abrasives, and related materials
- 777 Modelmaking, patternmaking, moldmaking, and related work
- 779 Fabrication and repair of sand, stone, clay and glass products, n.e.c.
- 78 FABRICATION AND REPAIR OF TEXTILE, LEATHER, AND RELATED PRODUCTS
- 780 Upholstering and mattress and bedspring fabrication and repair
- 781 Laying out, marking, cutting, and punching, n.e.c.
- 782 Handsewing, mending, embroidering, knitting, and related work, n.e.c.
- 783 Fur working
- 784 Fabrication and repair of hats, caps, gloves, and related products
- 785 Tailoring and dressmaking
- 786 Machine sewing, garment
- 787 Machine sewing, nongarment
- 788 Fabrication and repair of footwear
- 789 Fabrication and repair of textiles, leather, and related products, n.e.c.
- 79 BENCH WORK OCCUPATIONS, N.E.C.
- 790 Preparation of food, tobacco, and related products, n.e.c.
- 794 Fabrication of paper products, n.e.c.
- 799 Miscellaneous bench work, n.e.c.

STRUCTURAL WORK

80 METAL FABRICATING, N.E.C.

- 800 Riveting
- 801 Fitting, bolting, screwing, & related work
- 804 Sheet metal work
- 805 Boilermaking & related work
- 806 Transportation equipment assembling & related work
- 807 Body work, transportation equipment
- 809 Miscellaneous metal fabricating, n.e.c.

81 WELDERS, FLAME CUTTERS, AND RELATED

- 810 Arc welding
- 811 Gas welding
- 812 Combination arc and gas welding
- 813 Resistance welding
- 814 Brazing, braze-welding, & soldering
- 815 Lead burning
- 816 Flame and arc cutting
- 819 Welding, flame cutting, & related work, n.e.c.

82 ELECTRICAL ASSEMBLING, INSTALLING, & REPAIRING

- 820 Generator, motor, & related powerplant equipment assembly, installation, & repair
- 821 Transmission & distribution line & circuit assembly, installation, & repair
- 822 Wire communication, detection, & signaling equipment assembly, installation, & repair
- 823 Electronic communication, detection, & signaling equipment assembly, installation, & repair
- 824 Lighting equipment & building wiring assembly, installation, & repair, n.e.c.
- 825 Transportation & materials handling equipment assembly, installation, & repair, n.e.c.
- 826 Industrial apparatus assembly, installation, and repair, n.e.c.
- 827 Large household appliances & similar commercial & industrial equipment assembly, installation, & repair
- 828 Electrical & electronic product fabrication, installation, & repair, n.e.c.
- 829 Assembly, installation, & repair of electrical products, n.e.c.

84 PAINTING, PLASTERING, WATERPROOFING, CEMENTING, AND RELATED

- 840 Construction & maintenance painting & related work
- 841 Paperhanging
- 842 Plastering & related work
- 843 Waterproofing & related work
- 844 Cement & concrete finishing & related work
- 845 Transportation equipment painting & related work
- 849 Painting, plastering, waterproofing, cementing, & related work, n.e.c.

85 EXCAVATING, GRADING, PAVING, & RELATED

- 850 Excavating, grading, & related work
- 851 Drainage & related work
- 852 Concrete paving
- 853 Asphalt paving
- 859 Excavating, grading, paving, & related work, n.e.c.

86 CONSTRUCTION OCCUPATIONS, N.E.C.

- 860 Carpentry and related work
- 861 Brick and stone masonry and tile setting
- 862 Plumbing, gas fitting, steam fitting, and related work
- 863 Asbestos and insulation work
- 864 Floor laying and finishing work
- 865 Glass setting and related work
- 866 Roofing and related work
- 869 Miscellaneous construction work, n.e.c.

89 STRUCTURAL WORK OCCUPATIONS, N.E.C.

- 891 Structural maintenance, n.e.c.
- 892 Hoisting and conveying, n.e.c.
- 899 Miscellaneous structural work, n.e.c.

MISCELLANEOUS WORK

90 MOTOR FREIGHT

- 900 Concrete-mixing-truck driving
- 902 Dump-truck driving
- 903 Truck driving, inflammables
- 904 Trailer-truck driving
- 905 Heavy truck driving
- 906 Light truck driving
- 909 Motor freight transportation, n.e.c.

91 TRANSPORTATION OCCUPATIONS, N.E.C.

- 910 Railroad transportation
- 911 Water transportation
- 912 Air transportation
- 913 Passenger transportation, n.e.c.
- 914 Pumping and pipeline transportation
- 915 Parking lot and related service work
- 919 Miscellaneous transportation work, n.e.c.

92 PACKAGING AND MATERIALS HANDLING

- 920 Packaging
- 921 Hoisting and conveying
- 922 Materials moving and storing, n.e.c.
- 929 Packaging and materials handling, n.e.c.

93 OCCUPATIONS IN EXTRACTION OF MINERALS

- 930 Boring, drilling, cutting, and related work
- 931 Blasting
- 932 Loading and conveying
- 933 Crushing
- 934 Screening and related work
- 939 Extraction of minerals, n.e.c.

94 OCCUPATIONS IN LOGGING

- 940 Timber cutting and related work
- 941 Log inspecting, grading, scaling, and related work
- 942 Log sorting, gathering, storing, and related work
- 949 Logging, n.e.c.

95 PRODUCTION AND DISTRIBUTION OF UTILITIES

- 950 Stationary engineering
- 951 Firing and related work
- 952 Generation, transmission, and distribution
of electric light and power
- 953 Production and distribution of gas
- 954 Filtration, purification, and distribution of water
- 955 Refuse and sewage disposal
- 956 Distribution of steam
- 957 Transmission of communications, n.e.c.
- 959 Production and distribution of utilities, n.e.c.

96 AMUSEMENT, RECREATION, AND MOTION PICTURE
OCCUPATIONS, N.E.C.

- 960 Motion picture projecting
- 961 Modeling and related work, n.e.c.
- 962 Motion picture production, n.e.c.
- 963 Radio and television production, n.e.c.
- 964 Theatrical and related entertainment production, n.e.c.
- 969 Miscellaneous amusement, recreation, and motion
picture work, n.e.c.

97 GRAPHIC ART WORK

- 970 Art work, brush, spray, or pen
- 971 Photoengraving
- 972 Lithography and related work
- 973 Hand composition, typesetting, and related work
- 974 Electrotyping and related work
- 975 Stereotyping and related work
- 976 Darkroom work, n.e.c.
- 977 Bookbinding and related work
- 979 Graphic art work, n.e.c.

999 INFORMATION NOT AVAILABLE

HOME
BOOKING TO INC.

OCT 6 1990

100 CAMPBELL STREET
CHARLESTON, MASS.

